

KOWA Sample Report



Nordev Contractors : TOWNSVILLE WORKSHOP

185 : TEREX PT600

Technician Alf Bonato

my.komatsu.com.au/cms/samples/20250321300729

Feeder LH

Evaluation Aluminium and silicon levels appear to indicate a fair degree of dust entry which is heavily influencing iron and PQ levels.

Recommendation At this stage, as you have replaced this oil, suggest collect another sample to confirm success of the drain.

Sample number 20250321300729

Status Action

Registration 418059

Sampled 10/03/2025

Evaluated 21/03/2025

Unit hours 8817

Comp. hours

Oil hours

Oil make ?

Oil type ISO

Oil grade 320

Oil changed Yes

Wear + additives

PQ Index 341

Iron (Fe) 2737

Chromium (Cr) 9

Nickel (Ni) 2

Copper (Cu) 6

Tin (Sn) 1

Lead (Pb) <1

Aluminium (Al) 50

Silicon (Si) 118

Sodium (Na) <1

Potassium (K) 3

Boron (B) 75

Molybdenum (Mo) 1

Zinc (Zn) 68

Magnesium (Mg) 14

Phosphorus (P) 774

Calcium (Ca) 26

Lithium (Li) <1

Silver (Ag) <1

Barium (Ba) 2

Manganese (Mn) 14

Titanium (Ti) 2

Vanadium (V) <1

Cadmium (Cd) <1

Physicals

Water <0.1

Viscosity @ 40°C 153

Status legend

Critical	Results indicate urgent action is required
Action	Results indicate action is required as soon as possible
Caution	Results indicate an increased trend that should be monitored
Query	Further information is required
Normal	Results are acceptable relative to the trend

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KOWA Sample Report



Nordev Contractors : TOWNSVILLE WORKSHOP

CATERPILLAR : CATERPILLAR ?

Technician Sandra (Sandy) Cleere

my.komatsu.com.au/cms/samples/20250325302519

Coolant

Evaluation pH is slightly high for a typical coolant. Copper (Cu 83 ppm and Zinc (Zn 24) are also high. All other results appear to be acceptable. Noted no previous samples to show trend and coolant type unknown.

Recommendation Check cooling system for signs of corrosion or damage. Sample again.

Sample number 20250325302519

Status Caution

Registration 539842

Sampled 10/03/2025

Evaluated 25/03/2025

Unit hours 8817

Comp. hours

Coolant hours

Coolant make ?

Coolant type ?

Coolant grade COOLANT

Coolant changed No

Wear + additives

Iron (Fe) <1

Chromium (Cr) <1

Copper (Cu) 83

Tin (Sn) 1

Lead (Pb) 4

Aluminium (Al) <1

Silicon (Si) 45

Sodium (Na) 3964

Potassium (K) 20

Boron (B) 1

Molybdenum (Mo) 469

Zinc (Zn) 24

Magnesium (Mg) <1

Phosphorus (P) 14

Calcium (Ca) 1

Physicals

Colour Red

Clarity Clear

Visible Solids None

Characteristics

Glycol 40

pH 9.0

Conductivity 4944

Anions

Chloride 17

Glycolate 1129

Nitrate 25

Nitrite 550

Phosphate 0

Sulphate 17

Status legend

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KOWA Sample Report



Nordev Contractors : TOWNSVILLE WORKSHOP

ID185 : LINCOM PT600

Technician Satchoo Padayachee

my.komatsu.com.au/cms/samples/20250502103020

Coolant

Evaluation	The copper (Cu) level is very high on the coolant - indicating copper wear or leaching. Exhaust gases entering the coolant will cause the pH to decrease. However, the pH value is at a high level for this coolant type indicating no exhaust gas entry. All other results appear satisfactory. Only concern is the high copper presence - check for possible cause for high copper. Continue monitoring the coolant at the next service interval.
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Sample number 20250502103020

Status **Caution**

Registration 272360

Sampled 28/04/2025

Evaluated 02/05/2025

Unit hours 8823

Comp. hours

Coolant hours

Coolant make CATERPILLAR

Coolant type ELC

Coolant grade COOLANT

Coolant changed No

Wear + additives

Iron (Fe) 1

Chromium (Cr) <1

Copper (Cu) 77

Tin (Sn) <1

Lead (Pb) 2

Aluminium (Al) <1

Silicon (Si) 57

Sodium (Na) 4002

Potassium (K) 21

Boron (B) <1

Molybdenum (Mo) 448

Zinc (Zn) 24

Magnesium (Mg) <1

Phosphorus (P) <1

Calcium (Ca) 5

Physicals

Colour Red

Clarity Clear

Visible Solids None

Characteristics

Glycol 40

pH 9.4

Conductivity 4754

Anions

Chloride 27

Glycolate 1022

Nitrate 35

Nitrite 467

Phosphate 302

Sulphate 32

Registration comments - provided by customer

Need to test if any exhaust emissions in sample please

Status legend

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KOWA Sample Report



Normal

20250321300739

KOWA Sample Report

Nordev Contractors : TOWNSVILLE WORKSHOP

185 : TEREX PT600

Diesel Engine

Technician Alf Bonato

my.komatsu.com.au/cms/samples/20250321300739

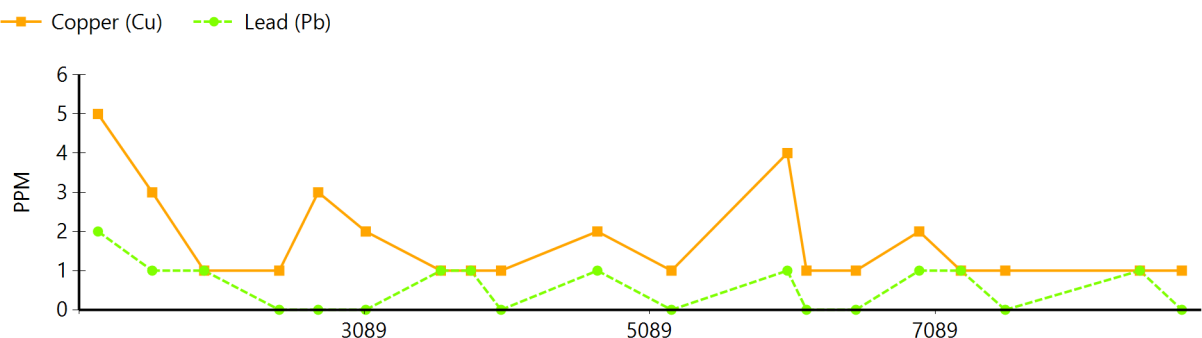
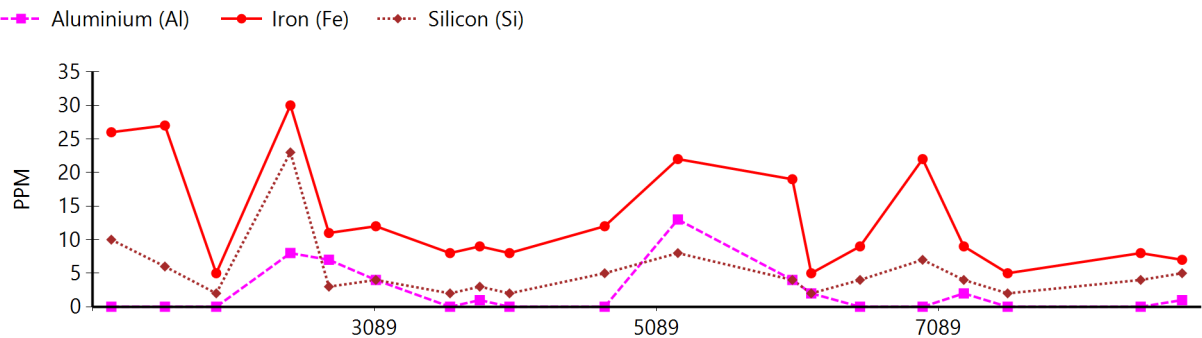
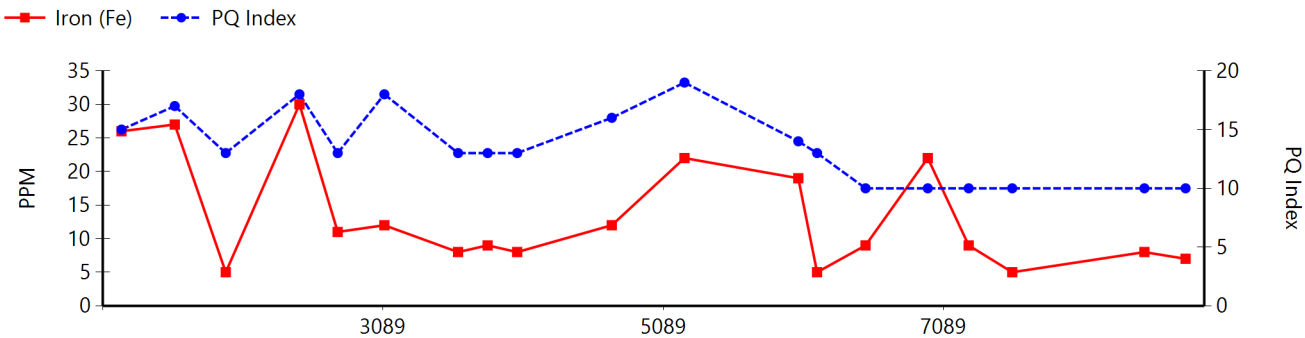
Evaluation Results appear to be acceptable, sample at the next sample interval.

Sample number	20250321300739	20240710100834	20230418300537	20221223100846	20221228100338
Status	Normal	Normal	Normal	Normal	Query
Registration	817410	687554	602454	667822	687872
Sampled	06/03/2025	24/10/2023	22/02/2023	09/12/2022	24/10/2022
Evaluated	21/03/2025	10/07/2024	18/04/2023	23/12/2022	28/12/2022
Unit hours	8817	8523	7580	7269	6977
Comp. hours		8523	7580	7269	6977
Oil hours			250	250	250
Oil make	SHELL	SHELL	SHELL	SHELL	SHELL
Oil type	RIMULA R3 MV	RIMULA R3 MV	RIMULA R3 MV	RIMULA R3 MV	RIMULA R3 MV
Oil grade	15W-40	15W-40	15W-40	15W-40	15W-40
Oil changed	Yes	Yes	Yes	Yes	Yes
Filter changed	Yes	Yes	Yes	Yes	Yes
Wear + additives					
PQ Index	10	10	10	10	10
Iron (Fe)	7	8	5	9	22
Chromium (Cr)	<1	<1	<1	<1	<1
Nickel (Ni)	<1	<1	<1	<1	<1
Copper (Cu)	1	1	1	1	2
Tin (Sn)	<1	<1	<1	2	<1
Lead (Pb)	<1	1	<1	1	1
Aluminium (Al)	1	<1	<1	2	<1
Silicon (Si)	5	4	2	4	7
Sodium (Na)	<1	2	<1	2	2
Potassium (K)	<1	<1	<1	1	2
Boron (B)	528	473	24	43	67
Molybdenum (Mo)	85	78	3	78	79
Zinc (Zn)	1034	1101	1183	952	1056
Magnesium (Mg)	367	367	4	8	8
Phosphorus (P)	858	984	1104	865	924
Calcium (Ca)	1245	1263	2559	1842	2092
Lithium (Li)	<1	<1	<1	<1	<1
Silver (Ag)	<1	<1	<1	<1	<1
Barium (Ba)	<1	<1	<1	<1	<1
Manganese (Mn)	<1	<1	<1	<1	<1
Titanium (Ti)	<1	<1	<1	<1	<1
Vanadium (V)	<1	<1	<1	<1	<1
Cadmium (Cd)	<1	<1	<1	<1	<1
Oil condition					
Nitration	6	6	5	9	10
Oxidation	15	14	6	14	15
Sulphation	21	19	14	22	24
Soot	8	6	13	8	12
Physicals					
Water	<0.1	<0.1	<0.1	<0.1	<0.1
GC Fuel	1.9	1.3	1	1.6	1.3

KOWA Sample Report



Sample number	20250321300739	20240710100834	20230418300537	20221223100846	20221228100338
Viscosity @ 100°C	12.5	13.0	12.3	11.7	12.7



Status legend

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KOWA Sample Report



Normal

20250321300203

KOWA Sample Report

Nordev Contractors : TOWNSVILLE WORKSHOP

ID185 : LINCOM PT600

Technician Grant Wilson

my.komatsu.com.au/cms/samples/20250321300203

Hydraulic

Evaluation All tests on this sample appear acceptable, keep sampling to monitor further.

Sample number 20250321300203

Status Normal

Registration 366488

Sampled 10/03/2025

Evaluated 21/03/2025

Unit hours 8817

Comp. hours

Oil hours

Oil make ?

Oil type ?

Oil grade 68

Oil changed Yes

Filter changed Yes

Wear + additives

PQ Index 10

Iron (Fe) 4

Chromium (Cr) <1

Nickel (Ni) <1

Copper (Cu) 4

Tin (Sn) <1

Lead (Pb) <1

Aluminium (Al) 1

Silicon (Si) 4

Sodium (Na) 1

Potassium (K) <1

Boron (B) 2

Molybdenum (Mo) 1

Zinc (Zn) 319

Magnesium (Mg) 2

Phosphorus (P) 249

Calcium (Ca) 59

Lithium (Li) <1

Silver (Ag) <1

Barium (Ba) <1

Manganese (Mn) <1

Titanium (Ti) <1

Vanadium (V) <1

Cadmium (Cd) <1

Particles

ISO 3 Count 22/18/14

04 Microns 23853

06 Microns 2117

14 Microns 127

21 Microns 56

Oil condition

Nitration 3



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New Zealand +64 0800 566 2878

New Caledonia +687 435 306

KOWA Sample Report



Sample number	20250321300203				
Oxidation	14				
Sulphation	22				
Physicals					
Water	<0.1				
Viscosity @ 40°C	66				

Status legend

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Caution	Results indicate an increased trend that should be monitored
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Normal	Results are acceptable relative to the trend

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KOWA Sample Report



Query

20250321300220

KOWA Sample Report

Nordev Contractors : TOWNSVILLE WORKSHOP

ID185 : LINCOM PT600

Final Drive Left

Technician Grant Wilson

my.komatsu.com.au/cms/samples/20250321300220

Evaluation The oils viscosity is lower than expected for the stated oil grade used. All other results appear acceptable.

Recommendation Check and confirm the correct oil is used. Consider replacing the oil to help restore viscosity.

Sample number 20250321300220

Status Query

Registration 809661

Sampled 06/03/2025

Evaluated 21/03/2025

Unit hours

Comp. hours

Oil hours

Oil make ?

Oil type ISO

Oil grade 320

Oil changed No

Wear + additives

PQ Index 12

Iron (Fe) 181

Chromium (Cr) 2

Nickel (Ni) 1

Copper (Cu) 4

Tin (Sn) 1

Lead (Pb) <1

Aluminium (Al) 4

Silicon (Si) 6

Sodium (Na) 5

Potassium (K) 4

Boron (B) 2

Molybdenum (Mo) <1

Zinc (Zn) 17

Magnesium (Mg) 2

Phosphorus (P) 189

Calcium (Ca) 5

Lithium (Li) <1

Silver (Ag) <1

Barium (Ba) <1

Manganese (Mn) 8

Titanium (Ti) <1

Vanadium (V) <1

Cadmium (Cd) <1

Physicals

Water <0.1

Viscosity @ 40°C 144

Status legend

Critical	Results indicate urgent action is required
Action	Results indicate action is required as soon as possible
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KOWA Sample Report



Query

20250321300221

KOWA Sample Report

Nordev Contractors : TOWNSVILLE WORKSHOP

ID185 : LINCOM PT600

Final Drive Right

Technician Grant Wilson

my.komatsu.com.au/cms/samples/20250321300221

Evaluation The oils viscosity is lower than expected for the stated oil grade used. All other results appear acceptable.

Recommendation Check and confirm the correct oil is used. Consider replacing the oil to help restore viscosity.

Sample number 20250321300221

Status Query

Registration 809667

Sampled 10/03/2025

Evaluated 21/03/2025

Unit hours 8817

Comp. hours

Oil hours

Oil make ?

Oil type ISO

Oil grade 320

Oil changed Yes

Wear + additives

PQ Index 10

Iron (Fe) 156

Chromium (Cr) 2

Nickel (Ni) 1

Copper (Cu) 4

Tin (Sn) <1

Lead (Pb) <1

Aluminium (Al) 2

Silicon (Si) 5

Sodium (Na) 6

Potassium (K) 4

Boron (B) 2

Molybdenum (Mo) <1

Zinc (Zn) 14

Magnesium (Mg) 1

Phosphorus (P) 204

Calcium (Ca) 4

Lithium (Li) <1

Silver (Ag) <1

Barium (Ba) <1

Manganese (Mn) 7

Titanium (Ti) <1

Vanadium (V) <1

Cadmium (Cd) <1

Physicals

Water <0.1

Viscosity @ 40°C 147

Status legend

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