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HYDRAULIC SYSTEM

EQUIP NUM: HMG-1429
CHAMPION ZZZ_CHAMPION
No Action Required

SERIAL NUMBER: CHEMCO031429

Interp By: Aron Balines
Interpreted On: 06-Aug-25

N030-55212-0353
LABEL#: 202036876
SAMPLE SHIP TIME (days) : 6
LOCATION CATS LTD/
CHEMCO ELECTRICAL
CONTRACTORS LTD
RECEIVED DATE: 31-Jul-25

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

SAMPLE INFORMATION

Sampled Date	25-Jul-25
Sample Id	N030-55212-0353
Lab Date	31-Jul-25
Meter [Hr]	13769
Comp Meter [Hr]	13769
Meter On Fluid	13769
Fluid Brand	
Fluid Weight	
Fluid Type	
Fluid Change	U
Filter Change	U
Kidney Loop	U

CONDITION / CONTAMINATION

25-Jul-25		
VISCOSITY (Centistokes)		
V100	Viscosity at 100 C	5.300

VISCOSITY (Centistokes)		
V40	Viscosity at 40 C	29.30

VISCOSITY INDEX		
VI	Viscosity Index	114

INFRARED (UFM)		
ST	Soot	0
OXI	Oxidation	4
SUL	Sulfate By-Product	12
NIT	Nitration	2

ANTIFREEZE		
A	Antifreeze	N

WATER		
W	Water	N

WEAR LEVELS / ADDITIVES

25-Jul-25		
ELEMENTAL ANALYSIS (ppm)		
Na	Sodium	1
K	Potassium	0
Si	Silicon	2
Al	Aluminum	1
Fe	Iron	5
Cr	Chromium	0
Pb	Lead	0
Cu	Copper	6
Sn	Tin	0
Ni	Nickel	0
Ag	Silver	0
Ti	Titanium	1
V	Vanadium	0
Zn	Zinc	491
Ca	Calcium	312
Mg	Magnesium	4
Ba	Barium	0
B	Boron	2
Mo	Molybdenum	0
P	Phosphorus	356

CLEANLINESS

25-Jul-25		
PARTICLE COUNT		
ISO	ISO Code Rating	21/16/10
4µ	4µ	12733
6µ	6µ	334
10µ	10µ	18
14µ	14µ	9
18µ	18µ	6
21µ	21µ	5
38µ	38µ	2
50µ	50µ	1

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or component thereof.

HYDRAULIC SYSTEM

SERIAL NUMBER: CHEMCO031429

EQUIP NUM: HMG-1429

CHAMPION ZZZ_CHAMPION

N030-55212-0353



No Action Required

Report Comment

VisionLink® will be the new home for S-O-SSM Services fluid analysis. Begin the transition to VisionLink now - Sign up or log into vl.cat.com to update your settings, manage your fleet, configure your jobsites (groups), and view your samples. The ability for users to submit samples, track samples, view and graph sample history, and download reports are coming to VisionLink soon. Have any questions on SOS? Contact us 8:00am - 4:00pm MST M-F at SOS Support: 1-888-FINNING or oilsupport@finning.com.

TANDEM RIGHT
EQUIP NUM: HMG-1429
SERIAL NUMBER: CHEMCO031429
N030-55212-0358

LABEL#: 202038039

SAMPLE SHIP TIME (days) : 6

LOCATION CATS LTD/
CHEMCO ELECTRICAL
CONTRACTORS LTD

RECEIVED DATE: 31-Jul-25

CHAMPION ZZZ_CHAMPION
No Action Required

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL.

 Interp By: Aron Ballnes
 Interpreted On: 06-Aug-25

SAMPLE INFORMATION

	25-Jul-25	20-Oct-20
Sampled Date	25-Jul-25	20-Oct-20
Sample Id	N030-55212-0356	N030-50297-0078
Lab Date	31-Jul-25	23-Oct-20
Meter [Hr]	13769	13550
Comp Meter [Hr]	13769	13550
Meter On Fluid	219	13550
Fluid Brand	TRITON	TRITON
Fluid Weight	75W-90	75W-90
Fluid Type		
Fluid Change	U	Y
Filter Change	U	N
Make Up Fluid [L]		95
Kidney Loop	U	N

CONDITION / CONTAMINATION

		25-Jul-25	20-Oct-20
VISCOSITY (Centistokes)			
V100	Viscosity at 100 C	15.40	15.3
VISCOSITY (Centistokes)			
V40	Viscosity at 40 C	89.60	96.6
VISCOSITY INDEX			
VI	Viscosity Index	183	168

WEAR LEVELS / ADDITIVES

		25-Jul-25	20-Oct-20
ELEMENTAL ANALYSIS (ppm)			
Na	Sodium	1	1
K	Potassium	0	2
Si	Silicon	4	9
Al	Aluminum	0	1
Fe	Iron	128	210
Cr	Chromium	0	1
Pb	Lead	0	1
Cu	Copper	2	2
Sn	Tin	0	0
Ni	Nickel	0	0
Ag	Silver	0	0
Ti	Titanium	0	0
V	Vanadium	0	0
Zn	Zinc	27	78
Ca	Calcium	32	36
Mg	Magnesium	4	23
Ba	Barium	0	0
B	Boron	188	96
Mo	Molybdenum	0	1
P	Phosphorus	1213	800

INFRARED (UFM)

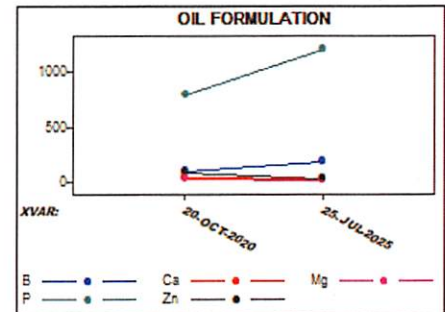
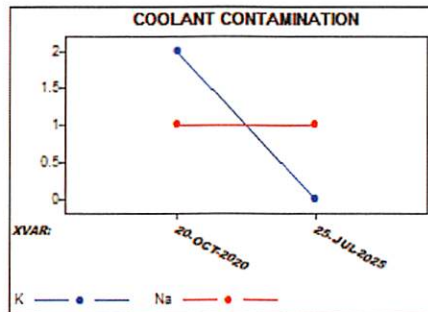
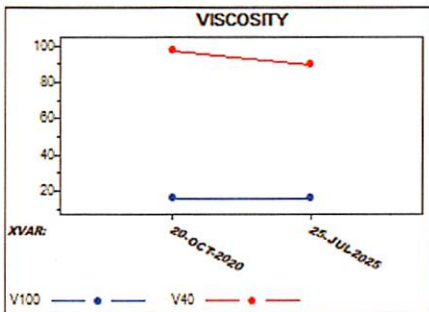
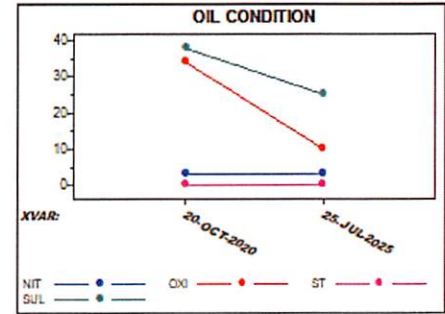
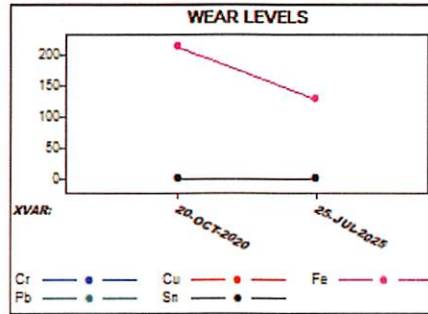
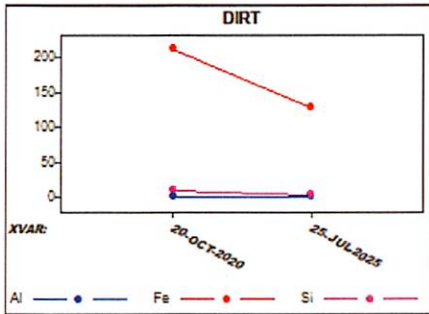
		25-Jul-25	20-Oct-20
ST	Soot	0	0
OXI	Oxidation	10	34
SUL	Sulfate By-Product	25	38
	Sulfur Products	25	38
NIT	Nitration	3	3

WATER

		25-Jul-25	20-Oct-20
W	Water	N	N

CLEANLINESS

		25-Jul-25	20-Oct-20
PARTICLE COUNT			
ISO	ISO Code Rating	23/23/21	24/23/19
4μ	4μ	65452	80588
6μ	6μ	53911	54143
10μ	10μ	32131	14144
14μ	14μ	12386	2894
18μ	18μ	2169	822
21μ	21μ	532	387
38μ	38μ	8	13
50μ	50μ	2	5



Report Comment

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DIFFERENTIAL REAR

EQUIP NUM: HMG-1429

SERIAL NUMBER: CHEMCO031429

N030-55212-0357

LABEL#: 202037169

SAMPLE SHIP TIME (days) : 6

LOCATION CATS LTD/

CHEMCO ELECTRICAL

CONTRACTORS LTD

RECEIVED DATE: 31-Jul-25

CHAMPION ZZZ_CHAMPION



No Action Required

DIRT AND WEAR METALS APPEAR TO BE AT ACCEPTABLE LEVELS. OTHER READINGS APPEAR TO BE NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. OIL TYPE/ GRADE MAY HAVE BEEN CHANGED - NOTE CHANGES TO VISCOSITY AND METAL ADDITIVE PACKAGE.

Interp By: Aron Ballnes
Interpreted On: 06-Aug-25

SAMPLE INFORMATION



	25-Jul-25	20-Oct-20
Sampled Date	25-Jul-25	20-Oct-20
Sample Id	N030-55212-0357	N030-50297-0079
Lab Date	31-Jul-25	23-Oct-20
Meter [Hr]	14033	13550
Comp Meter [Hr]	14033	13550
Meter On Fluid	483	13550
Fluid Brand	TRITON	TRITON
Fluid Weight	75W-90	75W-90
Fluid Type		
Fluid Change	Y	Y
Filter Change	N	N
Make Up Fluid [L]	30	25
Kidney Loop	N	N

CONDITION / CONTAMINATION

		25-Jul-25	20-Oct-20
VISCOSITY (Centistokes)			
V100	Viscosity at 100 C	14.20	6.0

		25-Jul-25	20-Oct-20
VISCOSITY (Centistokes)			
V40	Viscosity at 40 C	87.30	28.0

		25-Jul-25	20-Oct-20
VISCOSITY INDEX			
VI	Viscosity Index	169	169

		25-Jul-25	20-Oct-20
INFRARED (UFM)			
ST	Soot	0	0
OXI	Oxidation	16	25
SUL	Sulfate By-Product	28	33
	Sulfur Products	28	33
NIT	Nitration	3	3

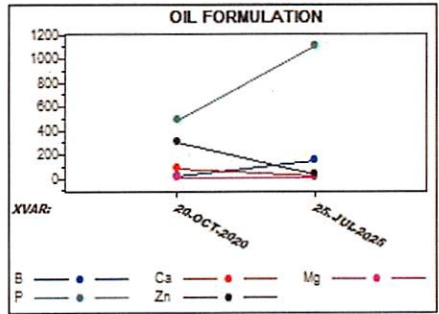
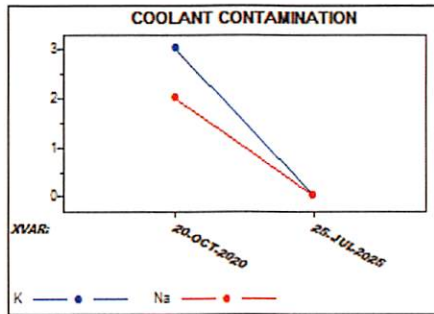
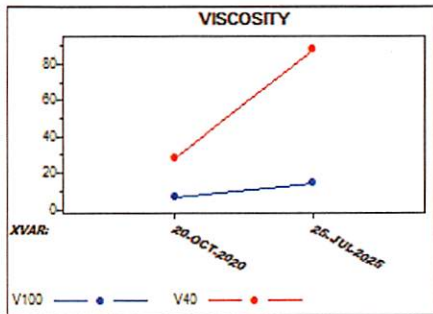
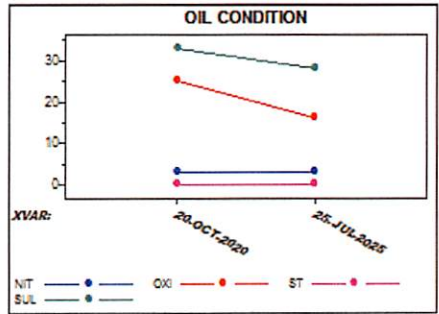
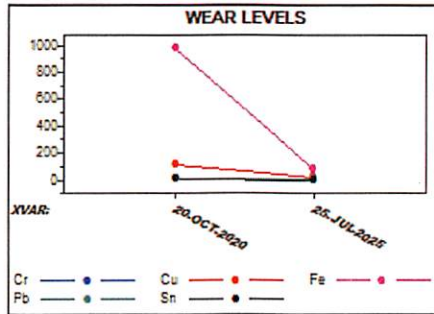
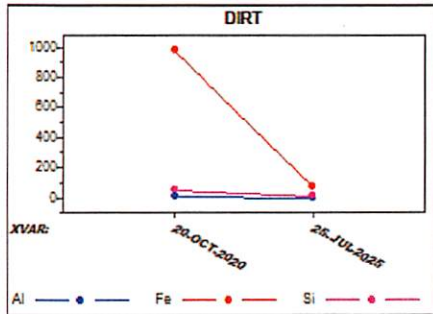
		25-Jul-25	20-Oct-20
WATER			
W	Water	N	N

WEAR LEVELS / ADDITIVES

		25-Jul-25	20-Oct-20
ELEMENTAL ANALYSIS (ppm)			
Na	Sodium	0	2
K	Potassium	0	3
Si	Silicon	2	48
Al	Aluminum	0	5
Fe	Iron	70	980
Cr	Chromium	0	3
Pb	Lead	2	10
Cu	Copper	17	107
Sn	Tin	0	7
Ni	Nickel	0	0
Ag	Silver	0	0
Ti	Titanium	0	0
V	Vanadium	0	0
Zn	Zinc	30	303
Ca	Calcium	22	83
Mg	Magnesium	2	2
Ba	Barium	0	1
B	Boron	156	15
Mo	Molybdenum	0	4
P	Phosphorus	1099	490

CLEANLINESS

		25-Jul-25	20-Oct-20
PARTICLE COUNT			
ISO	ISO Code Rating	23/21/16	METAL
PC Ra	PC Rating		C2
4µ	4µ	49935	
6µ	6µ	15243	
10µ	10µ	1518	
14µ	14µ	358	
18µ	18µ	119	
21µ	21µ	60	
38µ	38µ	5	
50µ	50µ	2	



Report Comment

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