

EP18-1

Client: 3637607
 BONNETT'S WIRELINE
 65007 twp rd 714
 GRANDE PRAIRIE, AB T8W 5E7
 ATTN: RYAN MCNALLY

Unit #: 1116
 Unit Location:
 Component: ENGINE
 Location:
 Serial #: INKDL40X4FR97
 Make: KENWORTH
 Model: T800
 OAS #:

AGAT Laboratories

Equipment Reliability and Lubricants Testing Services

3650 21st Street N.E., Calgary, AB, T2E6V6

Phone:(403)299-2000 Fax:(403)299-2105



Date analyzed: 01/25/24

Work order: 23C191686

Oil brand & grade: Petro-Canada Duron E Syn 0W40 (2018)

Client Ref #:

LEGEND - LC -Lower Critical LR -Lower Reportable UR -Upper Reportable UC -Upper Critical * Ital -Custom Limit

UNIT DATA					SPECTROGRAPHIC ANALYSIS (PPM)																		
Sample#	Date Sampled	Component Service	Oil Service	Oil Changed	Al Aluminum	Cr Chromium	Cu Copper	Fe Iron	Sn Tin	Pb Lead	Si Silicon	Mo Molybdenum	Ni Nickel	Ag Silver	K Potassium	Na Sodium	B Boron	Ba Barium	Ca Calcium	Mg Magnesium	Mn Manganese	P Phosphorus	Zn Zinc
New Oil					0	0	0	2	0	0	4	77	0	0	0	2	0	0	1300	975	0	1330	1753
D401232	12/04/23	15742 hrs	800 hrs	Y	1	1	2	24	0	9	4	64	0	0	3	5	27 UR	1	1010	1030	0	916	1190
PHYSICAL PROPERTIES					ISO CLEANLINESS								OIL DEGRADATION										
Sample#	Glycol	H2O	% Fuel	Viscosity 40°C	Viscosity 100°C	% Solids	KF	°C Flash Point	Micron size				abs/cm-1								Min. RPVOT		
New Oil				81.0	14.3				4	6	14	ISO Code	% SCOT	OXD	NOX	COX	SO4	ZDDP	TAN	TBN			
D401232	N	N		78.7	12.6				28099	4450	354	22/19/16	0.2	15	16	16	9	0	3.75 UR	7.0			
WEAR CONTROL CHART										COMMENTS													
Sample#	0	30	60	90	120	150	Comments:																
D401232	I	I	I	I	I	I	37																
							REFER TO REVERSE FOR QUALITY CONTROL REPORT, EXPLANATION OF VARIANCE AND POSSIBLE CAUSES. The ISO Code and Particle Count can only be evaluated as acceptable in conjunction with a consultation of the manufacturer's guideline's for the specific unit.																
							Should you wish to provide feedback to AGAT Laboratories, please access our Customer review form at www.agatlabs.com/review.htm . This input is extremely important to us because your well being and satisfaction is our number one priority.																

* COMPONENT SERIAL NUMBER MUST BE GIVEN TO GENERATE HISTORY. Bold faced elements are included in Wear Control Chart.
 AGAT Laboratories Liability Shall Not Exceed The Cost Of Analysis. *Results relate only to the items tested

Client: 3637607
BONNETT'S WIRELINE
65007 twp rd 714
GRANDE PRAIRIE, AB T8W 5E7
ATTN: RYAN MCNALLY

Unit No.: 1116
Unit Location:
Component: ENGINE
Location:
Serial No.: INKDL40X4FR97
Make: KENWORTH
Model: T800
OAS No.:

Date analyzed: 01/26/24
Work order: 23C191686
Oil brand & grade: Petro-Canada Duron E Syn 0W40 (2018)
Client Ref #:



<u>Flagged Result</u>	<u>Possible Causes</u>	<u>Significance of Result / Recommended Action</u>
B - Boron	Boron is most commonly a coolant additive (in the form of borate). It may also be found in water inhibitors, extreme pressure additives, or grease additives.	Higher than expected boron levels generally indicate contamination. If high sodium and/or potassium levels are also present this commonly points to a coolant leak. Check for coolant leaks, seal failures, cracked heads or liners to identify and evaluate the source. Re-sample to monitor to ensure the source of contamination has been fixed.
TAN - Total Acid Number	Total acid number (TAN) is a measure of acidic components in oil. Higher than expected TAN may be due to the use of high-sulfur (sour) fuel, overheating, excessive blow-by, extended oil drain intervals, depletion of the oils additive package or the use of in improper oil type.	Higher than expected TAN level may indicate that the oil has reached the end of its useful lifetime. Identify and evaluate the source of the TAN level increase. Consider changing the oil.

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Unit Location:
Component: ENGINE
Location:
Serial #: INKDL40X4FR97
Make: KENWORTH
Model: T800

Oil brand & grade: Petro-Canada Duron E Syn 0W40 (2018)
Sample #: C-1028559
Date Sampled: 01/25/24
Date Analyzed: 01/25/24
Work order: 23C191686
Client Ref #:



Sample Score:

Your Sample
Score:

4

Rankings: 0-3 Normal, 4-6 Reportable, 7-10 Critical



Trend Graphs

