



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
Standby Fire Pump Engine (S/N 7487)

Component
Diesel Engine

Fluid
PETRO CANADA DURON MOTOR OIL SAE 30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC	WC0805163	WC0677269
Sample Date		Client Info		23 Nov 2023	29 Jun 2023	28 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	7	6	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	1
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

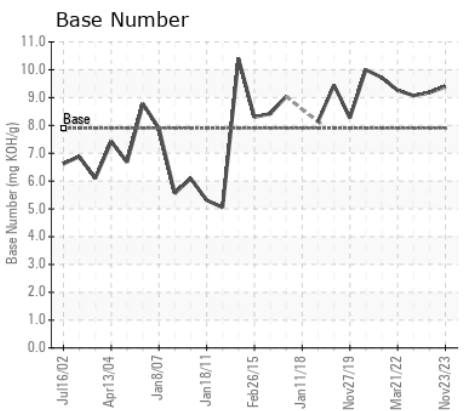
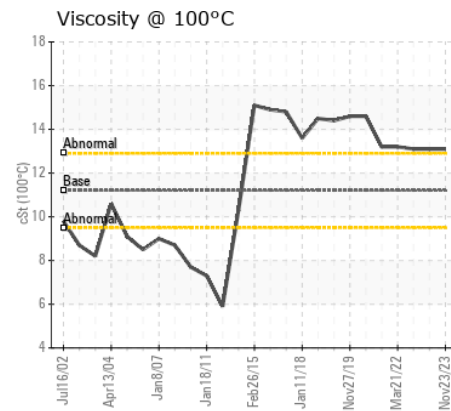
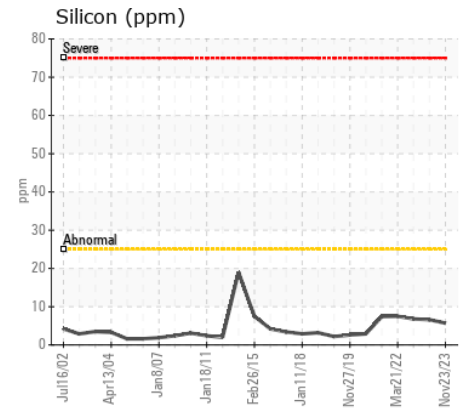
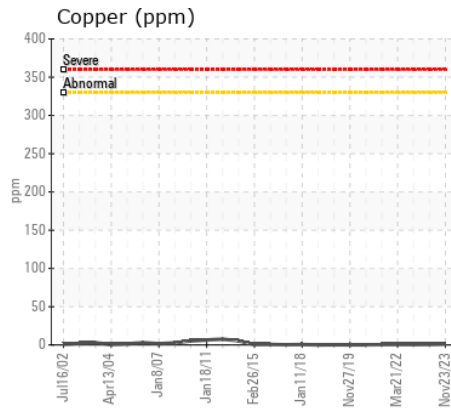
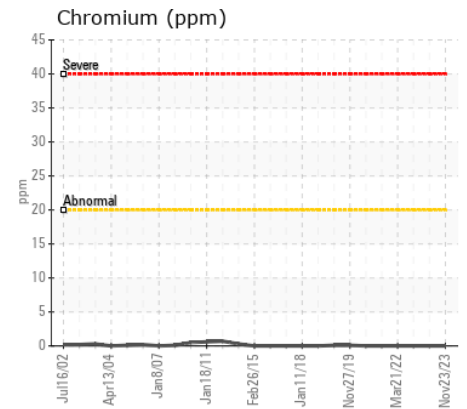
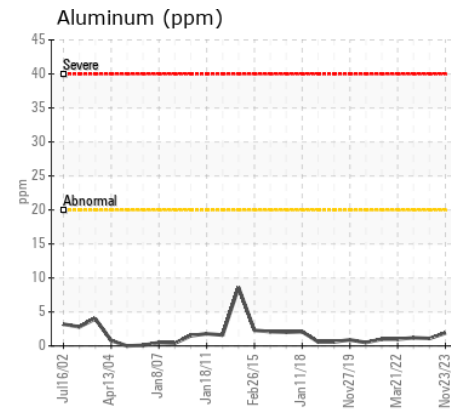
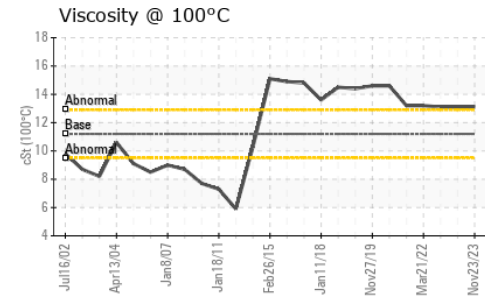
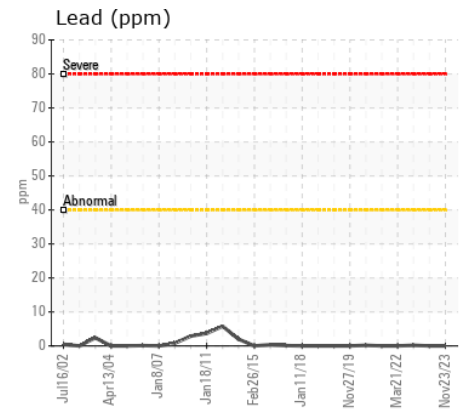
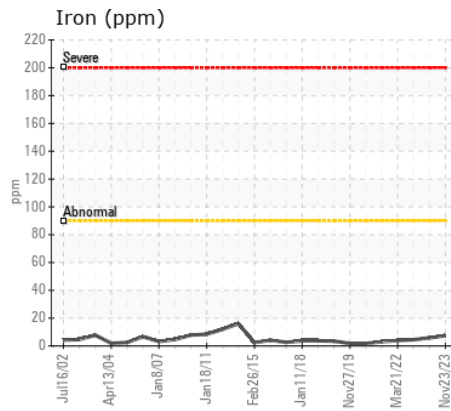
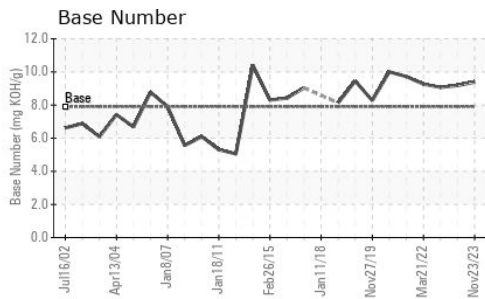
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	7	7
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.7	5.7	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	23.0	23.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		4	3	3
Boron	ppm	ASTM D5185(m)	1.0	55	61	63
Barium	ppm	ASTM D5185(m)	1.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	1.0	42	42	40
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	15	526	533	514
Calcium	ppm	ASTM D5185(m)	2540	1648	1651	1697
Phosphorus	ppm	ASTM D5185(m)	1000	941	1000	985
Zinc	ppm	ASTM D5185(m)	1110	1068	1098	1079
Sulfur	ppm	ASTM D5185(m)	3700	2546	2459	2494
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.9	20.1	20.3
Base Number (BN)	mg KOH/g	ASTM D2896*	7.9	9.39	9.18	9.07
Visc @ 100°C	cSt	ASTM D7279(m)	11.2	13.1	13.1	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02615873
Unique Number : 5732983
Test Package : MOB 2
Received : 15 Feb 2024
Tested : 16 Feb 2024
Diagnosed : 16 Feb 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.