



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		WC0805124	WC	WC0805163
Sample Date		Client Info		09 Apr 2024	23 Nov 2023	29 Jun 2023
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	2	7	6
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

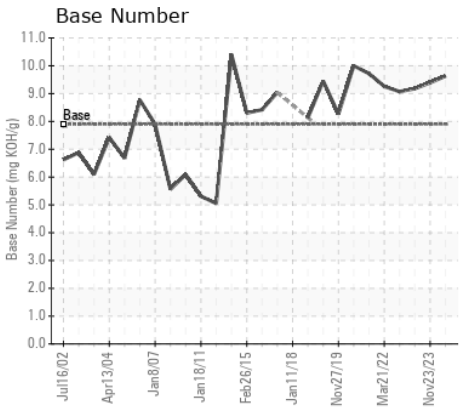
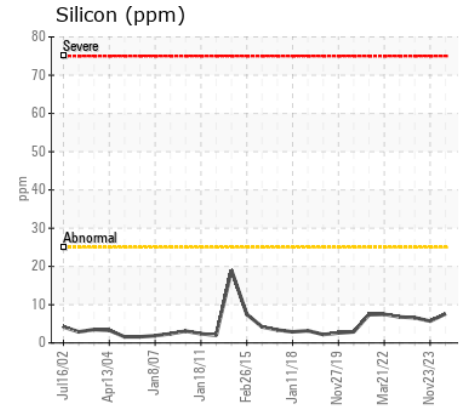
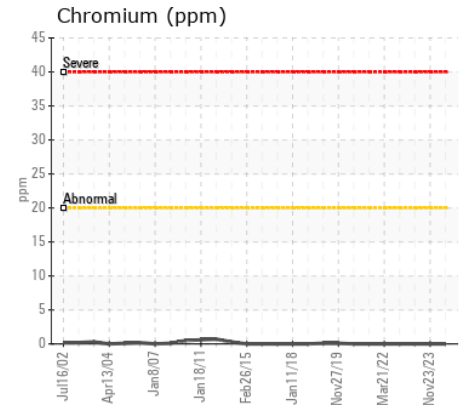
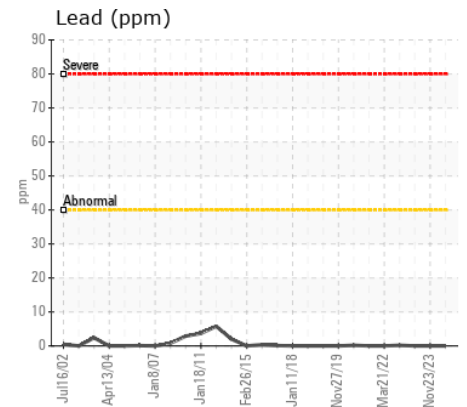
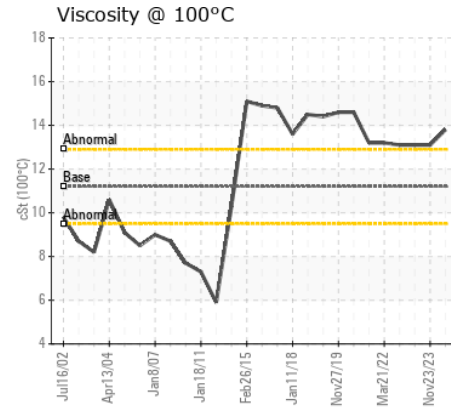
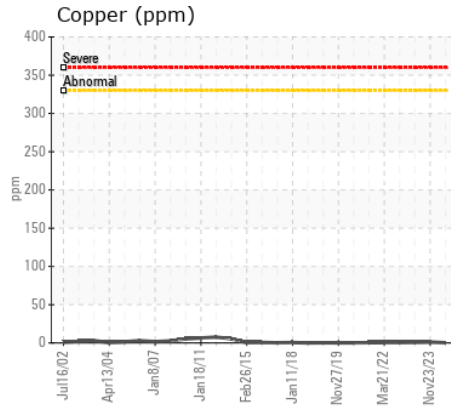
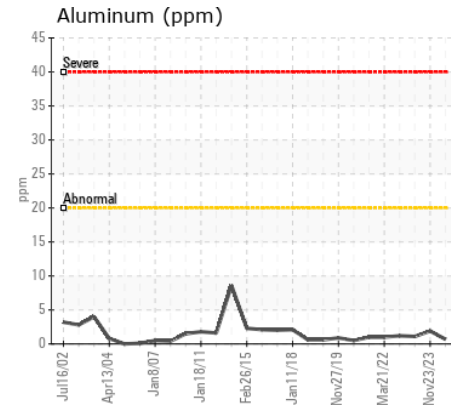
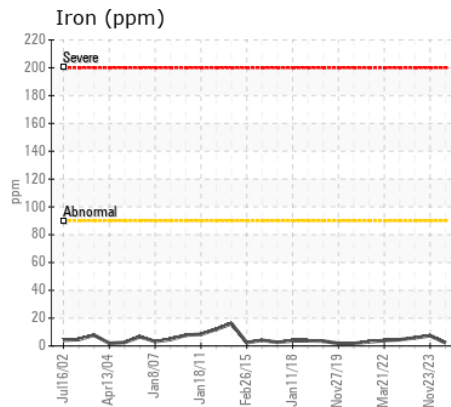
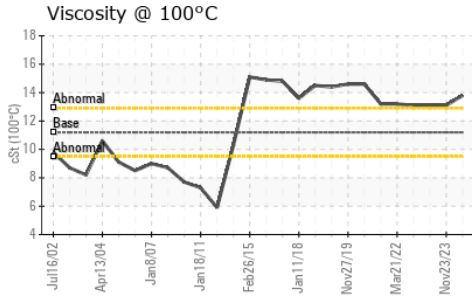
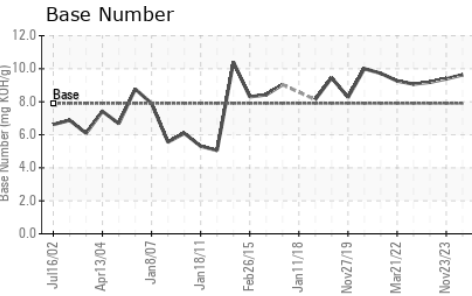
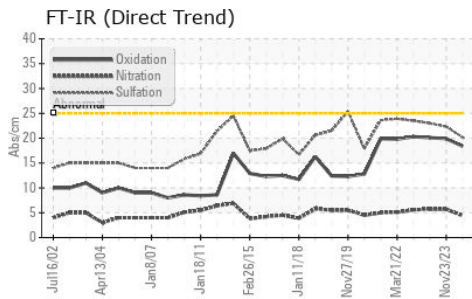
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	6	7
Potassium	ppm	ASTM D5185(m)	>20	0	<1	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	0.5	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.4	5.7	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	22.3	23.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		2	4	3
Boron	ppm	ASTM D5185(m)	1.0	59	55	61
Barium	ppm	ASTM D5185(m)	1.0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	1.0	35	42	42
Manganese	ppm	ASTM D5185(m)	1	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	15	469	526	533
Calcium	ppm	ASTM D5185(m)	2540	1545	1648	1651
Phosphorus	ppm	ASTM D5185(m)	1000	851	941	1000
Zinc	ppm	ASTM D5185(m)	1110	988	1068	1098
Sulfur	ppm	ASTM D5185(m)	3700	2283	2546	2459
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.4	19.9	20.1
Base Number (BN)	mg KOH/g	ASTM D2896*	7.9	9.63	9.39	9.18
Visc @ 100°C	cSt	ASTM D7279(m)	11.2	13.8	13.1	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0805124
Lab Number : 02629834
Unique Number : 5762966
Test Package : MOB 2

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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.