



Machine Id
MACK 6458
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083005	PC0071898	PC0060907
Sample Date		Client Info		04 Mar 2024	25 May 2023	10 Jan 2023
Machine Age	hrs	Client Info		3152	1422	513
Oil Age	hrs	Client Info		903	909	513
Filter Age	hrs	Client Info		903	909	513
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	27	36	44
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>5	8	3	9
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	1
Aluminum	ppm	ASTM D5185(m)	>20	4	3	7
Lead	ppm	ASTM D5185(m)	>40	<1	4	3
Copper	ppm	ASTM D5185(m)	>330	36	151	108
Tin	ppm	ASTM D5185(m)	>15	1	3	5
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

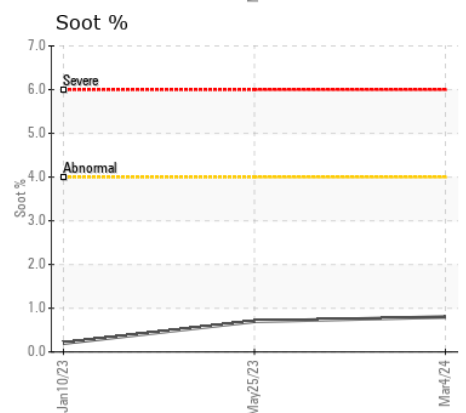
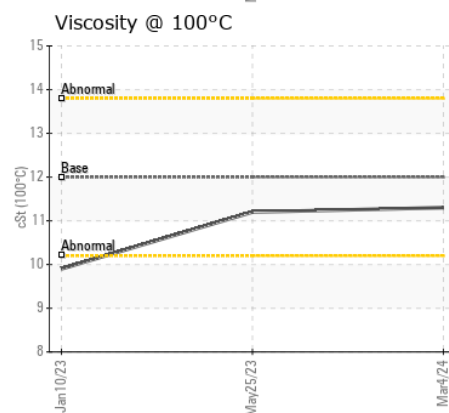
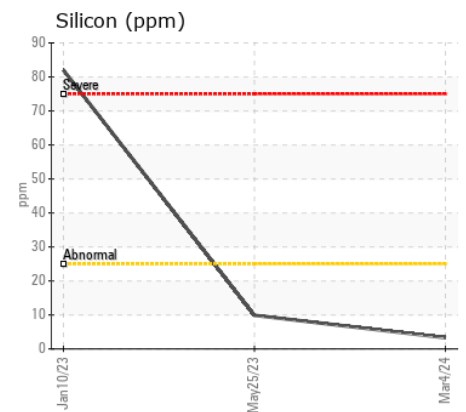
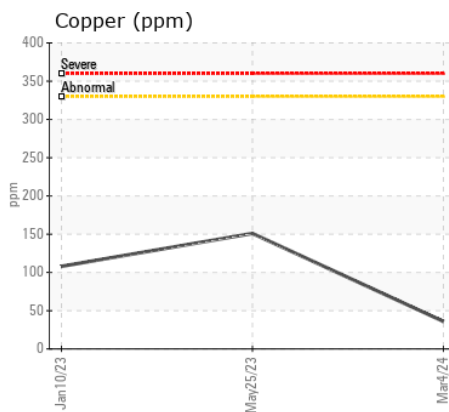
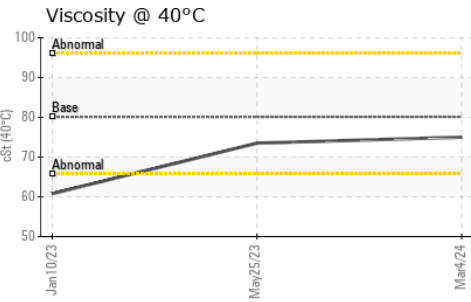
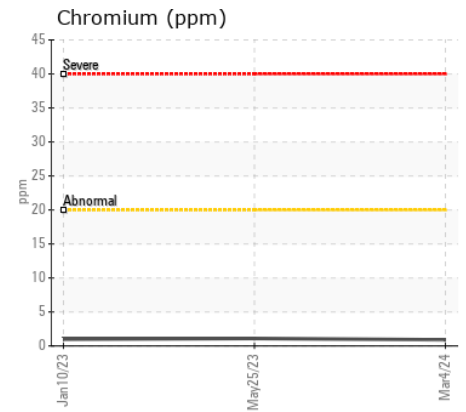
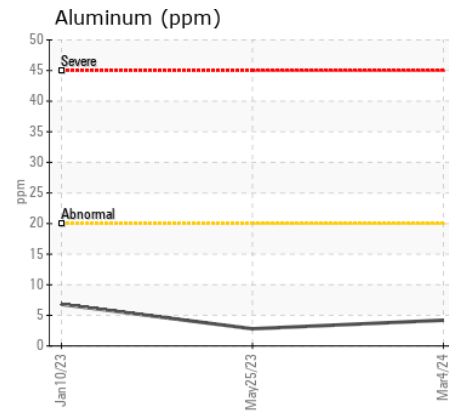
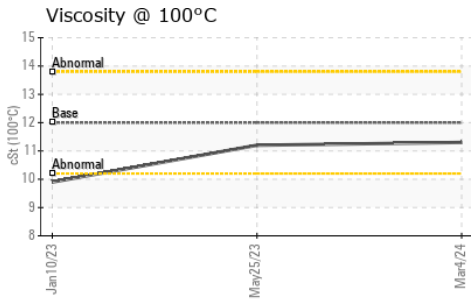
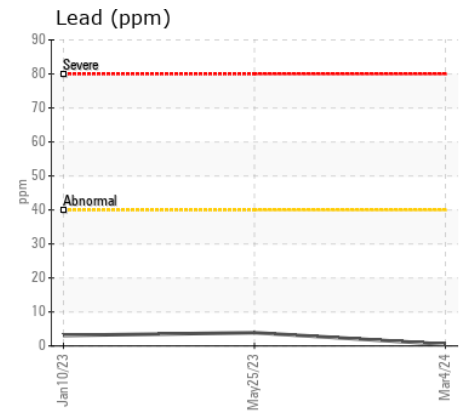
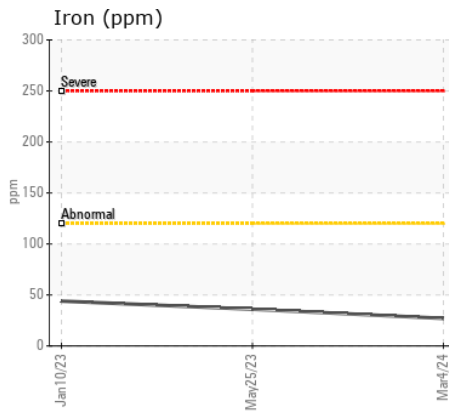
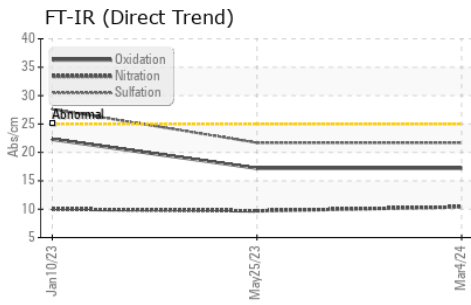
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	10	82
Potassium	ppm	ASTM D5185(m)	>20	4	3	6
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>4	0.8	0.7	0.2
Nitration	Abs/cm	ASTM D7624*	>20	10.4	9.7	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7	21.7	27.6
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		5	8	3
Boron	ppm	ASTM D5185(m)	2	2	7	240
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	63	68	110
Manganese	ppm	ASTM D5185(m)	0	1	2	6
Magnesium	ppm	ASTM D5185(m)	950	999	1000	661
Calcium	ppm	ASTM D5185(m)	1050	1086	1209	1515
Phosphorus	ppm	ASTM D5185(m)	995	942	1005	700
Zinc	ppm	ASTM D5185(m)	1180	1186	1192	758
Sulfur	ppm	ASTM D5185(m)	2600	2128	2156	1905
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.2	17.2	22.3
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	75.0	73.5	60.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.2	9.9
Viscosity Index (VI)	Scale	ASTM D2270*	144	142	143	148



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083005 **Received** : 16 Apr 2024
Lab Number : 02629118 **Tested** : 16 Apr 2024
Unique Number : 5762250 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Wasteco
 235 Curtis Drive
 Guelph, ON
 CA N1K 1Y3
 Contact: Craig Albers
 calbers@wasteco.com
 T:
 F: (519)836-4531

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.