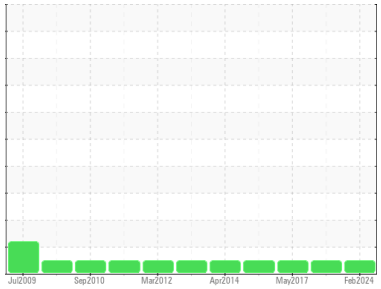
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
2007 SPARTAN 27036 PL432
Component
Front Diesel Engine
Fluid
PETRO CANADA 15W40 (40 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0085019**	AP105610	AP104629
Sample Date		Client Info		**29 Feb 2024**	20 Mar 2018	17 May 2017
Machine Age	mths	Client Info		**6**	105800	0
Oil Age	mths	Client Info		**6**	0	0
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	0.0	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**23**	21	15
Chromium	ppm	ASTM D5185(m)	>4	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	**2**	3	2
Lead	ppm	ASTM D5185(m)	>50	**<1**	5	2
Copper	ppm	ASTM D5185(m)	>55	**3**	14	5
Tin	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	2	1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**5**	41	63
Barium	ppm	ASTM D5185(m)		**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)		**64**	11	6
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**998**	11	10
Calcium	ppm	ASTM D5185(m)		**1059**	2504	2440
Phosphorus	ppm	ASTM D5185(m)		**1024**	1018	995
Zinc	ppm	ASTM D5185(m)		**1218**	1251	1170
Sulfur	ppm	ASTM D5185(m)		**2535**	3452	3410
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**8**	6	3
Sodium	ppm	ASTM D5185(m)		**38**	134	17
Potassium	ppm	ASTM D5185(m)	>20	**8**	95	10

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.8**	0.6	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**9.4**	9.6	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.0**	23.4	23.2

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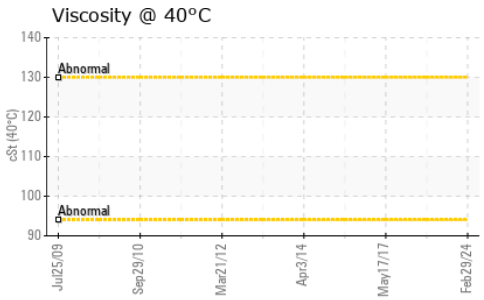
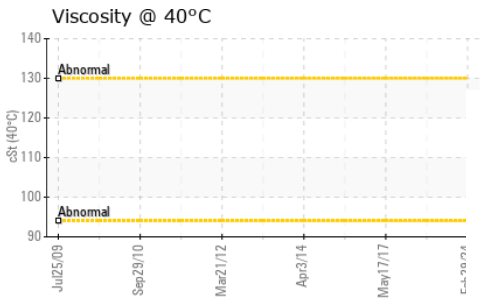


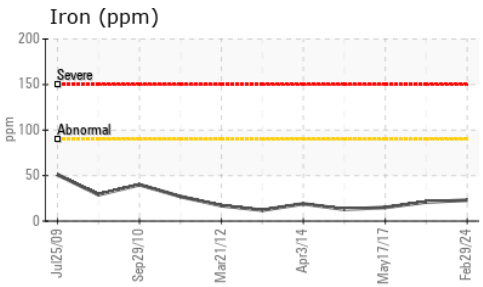


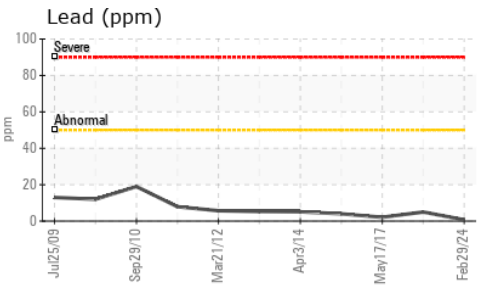
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**17.6**	19.2	16.7

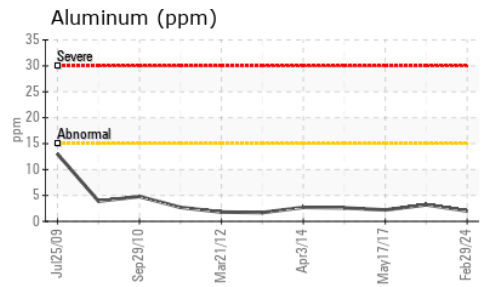
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

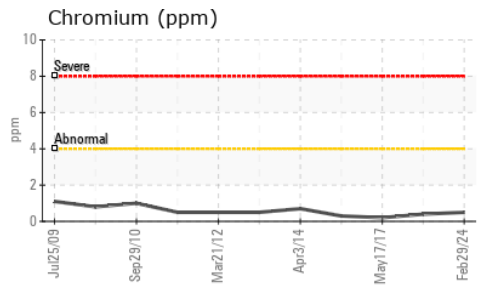
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		**101**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		**13.9**	14.5	14.6
Viscosity Index (VI)	Scale	ASTM D2270*		**139**	---	---

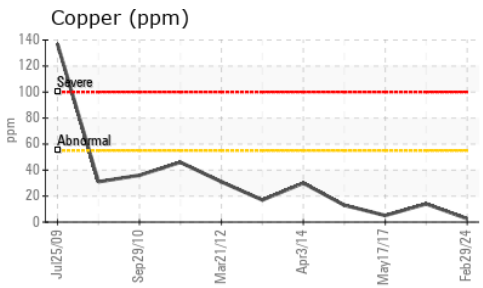
GRAPHS

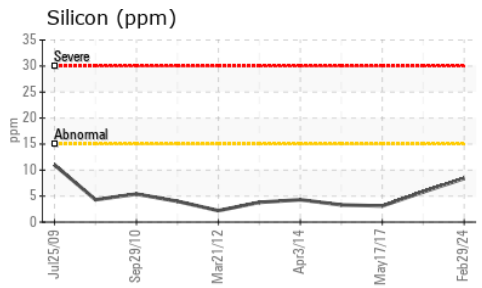


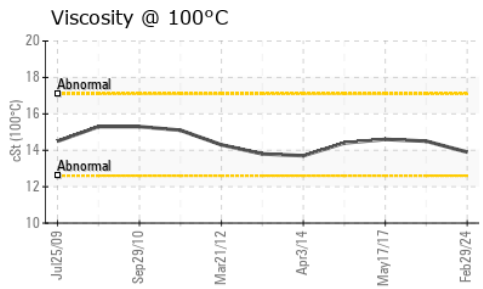


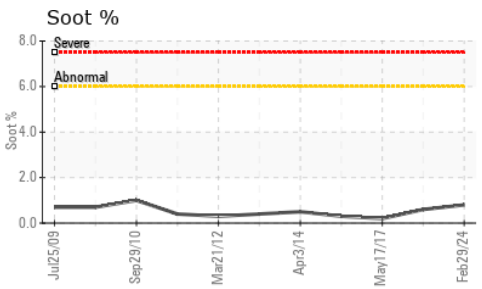












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085019 **Received** : 26 Mar 2024
Lab Number : 02624582 **Tested** : 26 Mar 2024
Unique Number : 5749701 **Diagnosed** : 26 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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.

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