



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8765
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		NL0002081	NL0001839	---
Sample Date		Client Info		16 Apr 2024	15 Jan 2024	---
Machine Age	mls	Client Info		75931	36034	---
Oil Age	mls	Client Info		45000	36000	---
Filter Age	mls	Client Info		45000	36000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	34	40	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	2	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	4	6	---
Lead	ppm	ASTM D5185m	>40	1	0	---
Copper	ppm	ASTM D5185m	>330	65	179	---
Tin	ppm	ASTM D5185m	>15	3	4	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

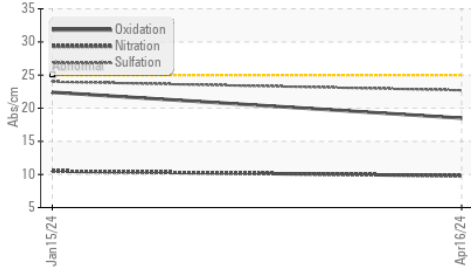
Silicon	ppm	ASTM D5185m	>25	10	40	---
Potassium	ppm	ASTM D5185m	>20	8	17	---
Fuel		WC Method	>5	<1.0	0.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	24.0	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

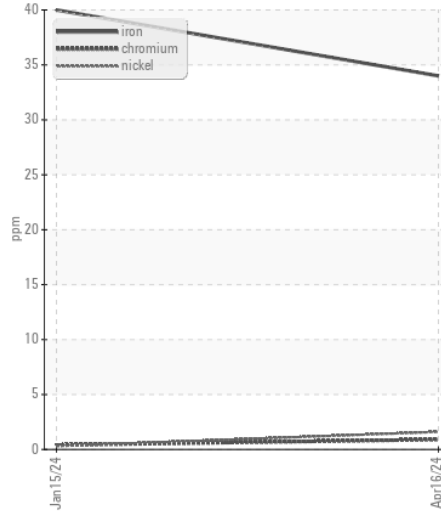
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	0	---
Boron	ppm	ASTM D5185m	0	23	85	---
Barium	ppm	ASTM D5185m	0	1	<1	---
Molybdenum	ppm	ASTM D5185m	60	76	108	---
Manganese	ppm	ASTM D5185m	0	2	2	---
Magnesium	ppm	ASTM D5185m	1010	812	685	---
Calcium	ppm	ASTM D5185m	1070	1251	1343	---
Phosphorus	ppm	ASTM D5185m	1150	959	742	---
Zinc	ppm	ASTM D5185m	1270	1228	865	---
Sulfur	ppm	ASTM D5185m	2060	2482	2289	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	22.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.9	6.7	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	10.7	---

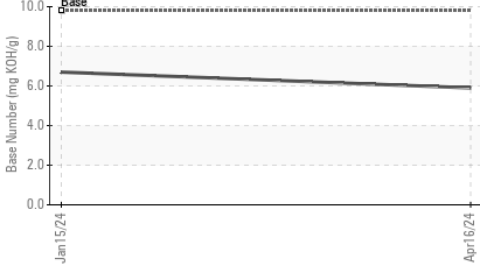
FT-IR (Direct Trend)



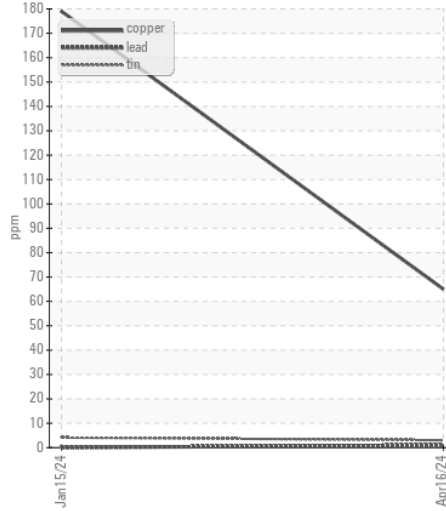
Ferrous Alloys



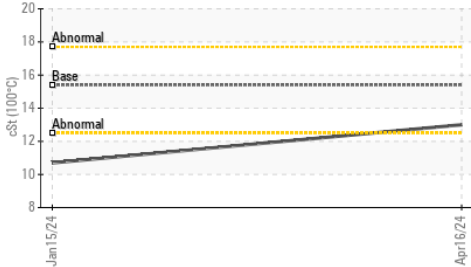
Base Number



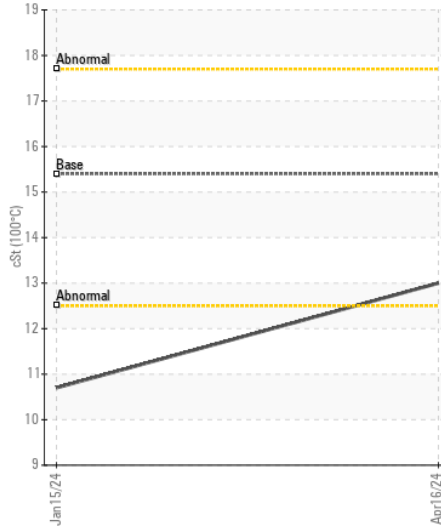
Non-ferrous Metals



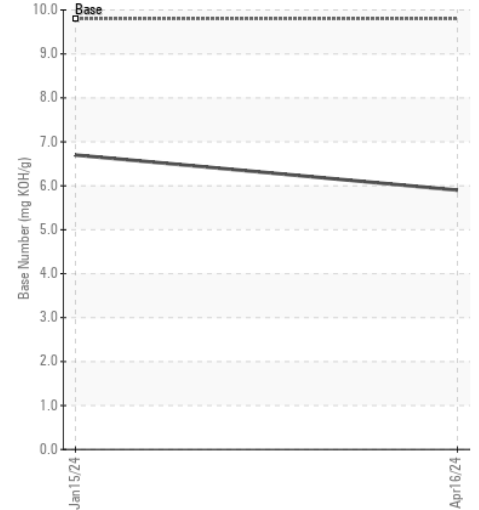
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : NL0002081
 Lab Number : 06217845
 Unique Number : 11096042
 Test Package : FLEET

Received : 24 Jun 2024
 Tested : 25 Jun 2024
 Diagnosed : 25 Jun 2024 - Wes Davis

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 US 20109
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)