FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
FLEET
Machine Id
VOLVO 2126927 (S/N 603225)
Component
1 Diesel Engine
Fluid
PETRO CANADA DURON ADVANCED 10W30 (36 QTS)

RECOMMENDATION

The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

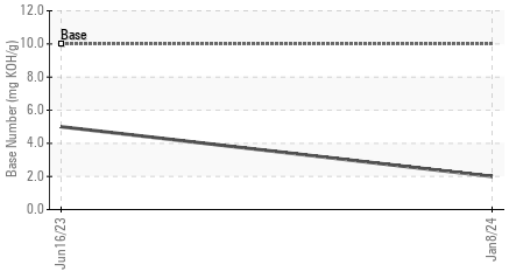
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

FLUID CONDITION

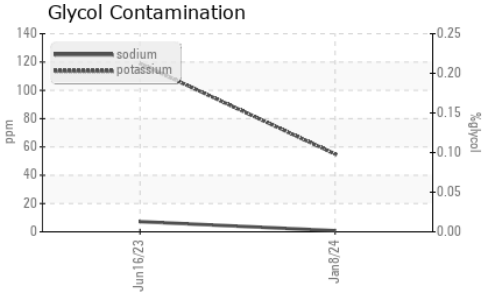
The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0112370	PCA0098155	---
Sample Date		Client Info		08 Jan 2024	16 Jun 2023	---
Machine Age	mls	Client Info		34740	34740	---
Oil Age	mls	Client Info		34740	34740	---
Filter Age	mls	Client Info		0	34740	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>100	60	101	---
Chromium	ppm	ASTM D5185m	>20	2	2	---
Nickel	ppm	ASTM D5185m	>2	1	1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	1	0	---
Aluminum	ppm	ASTM D5185m	>25	23	45	---
Lead	ppm	ASTM D5185m	>40	3	6	---
Copper	ppm	ASTM D5185m	>330	36	178	---
Tin	ppm	ASTM D5185m	>15	3	6	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	8	45	---
Potassium	ppm	ASTM D5185m	>20	55	119	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	16.0	14.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.9	26.9	---
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	---
Sodium	ppm	ASTM D5185m		<1	7	---
Boron	ppm	ASTM D5185m	0	<1	41	---
Barium	ppm	ASTM D5185m	0	0	3	---
Molybdenum	ppm	ASTM D5185m	60	64	123	---
Manganese	ppm	ASTM D5185m	0	2	6	---
Magnesium	ppm	ASTM D5185m	1010	902	672	---
Calcium	ppm	ASTM D5185m	1070	1041	1464	---
Phosphorus	ppm	ASTM D5185m	1150	948	716	---
Zinc	ppm	ASTM D5185m	1270	1236	860	---
Sulfur	ppm	ASTM D5185m	2060	2129	2336	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.7	31.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	▲ 2.0	5.0	---
Visc @ 100°C	cSt	ASTM D445	10.3	12.3	10.3	---

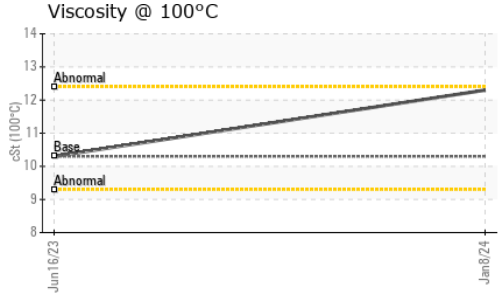
Base Number



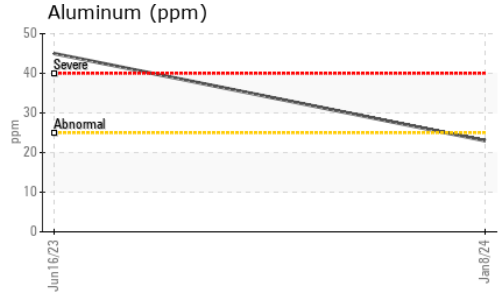
Glycol Contamination



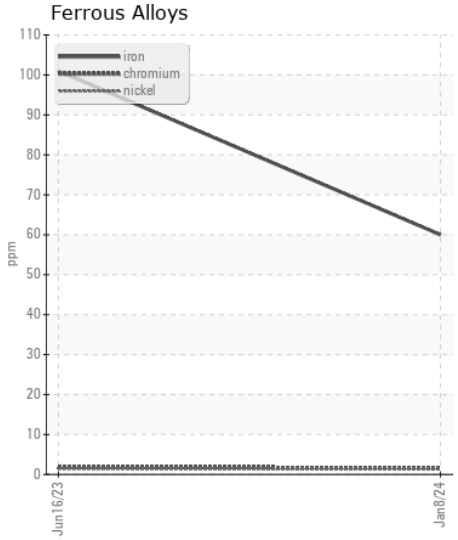
Viscosity @ 100°C



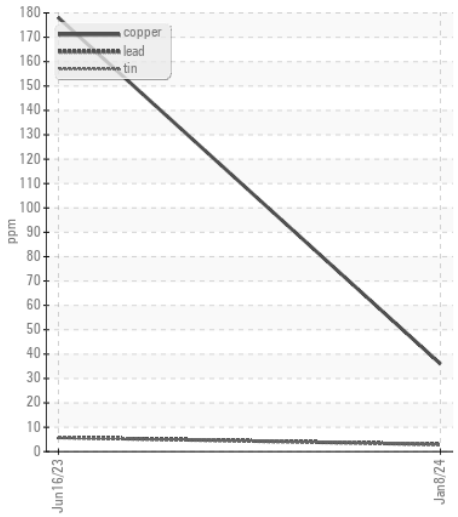
Aluminum (ppm)



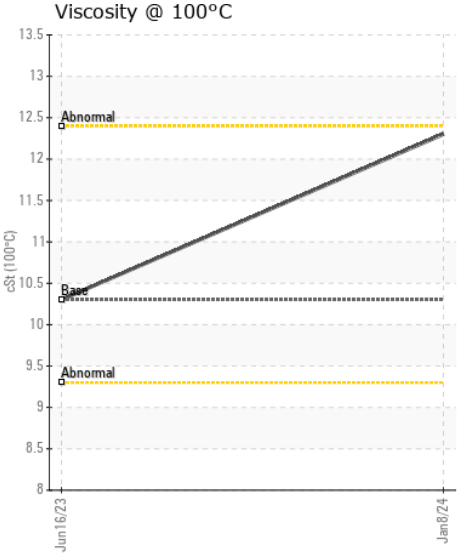
Ferrous Alloys



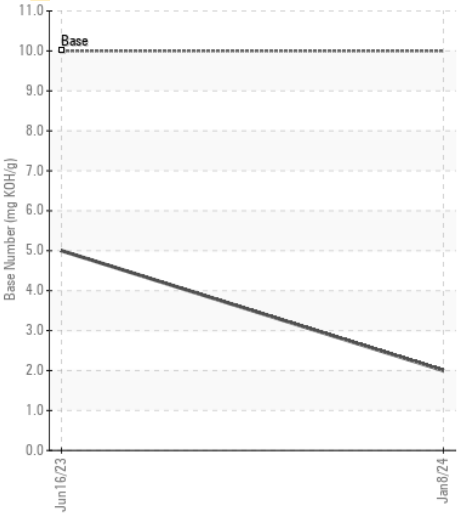
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112370
Lab Number : 06057918
Unique Number : 10829300
Test Package : FLEET
Recieved : 11 Jan 2024
Diagnosed : 12 Jan 2024
Diagnostician : Don Baldridge

Certificate L2367

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)

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