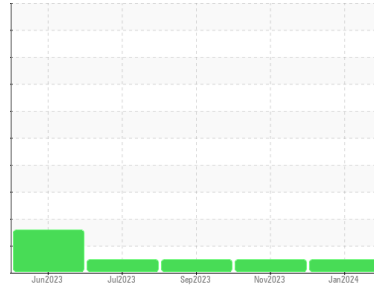


OIL ANALYSIS REPORT

Area
FLEET
 Machine Id
VOLVO 2126959 (S/N 4V4NC9EHXNN603164)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

Sample Rating Trend



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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0113705	PCA0108215	PCA0102850
Sample Date	Client Info	18 Jan 2024	16 Nov 2023	21 Sep 2023
Machine Age	mls Client Info	103398	81813	61768
Oil Age	mls Client Info	35840	20045	41685
Oil Changed	Client Info	Changed	Not Changd	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >6.0	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	20	12	24
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	<1	0
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >2	<1	<1	<1
Aluminum	ppm ASTM D5185m >25	6	3	8
Lead	ppm ASTM D5185m >40	3	<1	<1
Copper	ppm ASTM D5185m >330	59	55	101
Tin	ppm ASTM D5185m >15	2	1	2
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	8	0	4
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	63	64	67
Manganese	ppm ASTM D5185m 0	<1	<1	1
Magnesium	ppm ASTM D5185m 950	1035	958	980
Calcium	ppm ASTM D5185m 1050	1173	1096	1164
Phosphorus	ppm ASTM D5185m 995	886	1000	904
Zinc	ppm ASTM D5185m 1180	1217	1236	1242
Sulfur	ppm ASTM D5185m 2600	2741	2976	2817

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	7	5	8
Sodium	ppm ASTM D5185m	<1	0	3
Potassium	ppm ASTM D5185m >20	14	10	26

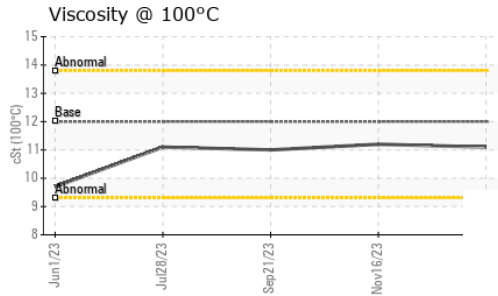
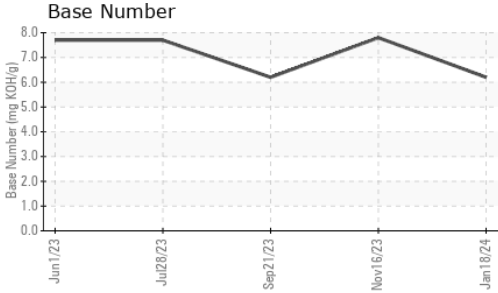
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.4	0.3	0.4
Nitration	Abs/cm *ASTM D7624 >20	9.8	7.8	9.7
Sulfation	Abs/.1mm *ASTM D7415 >30	21.0	19.7	21.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.0	15.2	17.2
Base Number (BN)	mg KOH/g ASTM D2896	6.2	7.8	6.2

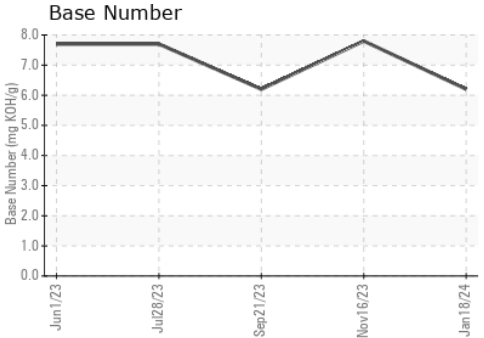
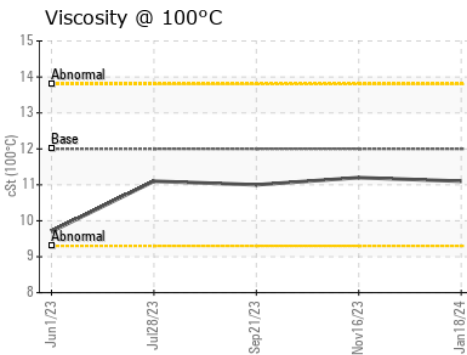
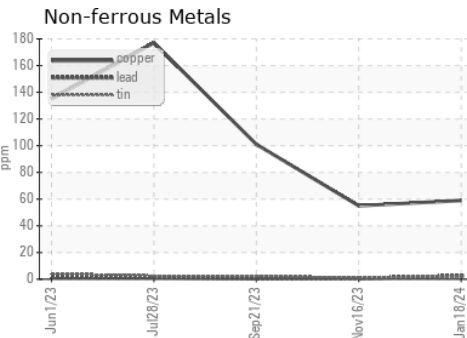
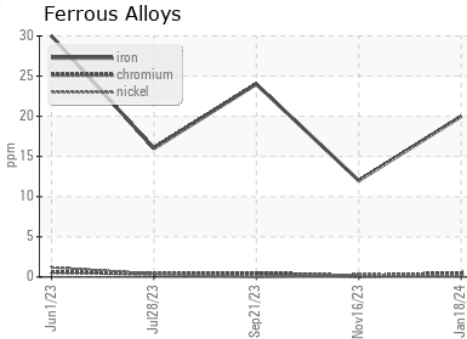
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.2	11.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113705 **Received** : 25 Jan 2024
Lab Number : **06070297** **Diagnosed** : 25 Jan 2024
Unique Number : 10846974 **Diagnostician** : Wes Davis
Test Package : FLEET

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 US 23301
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 peggy.kimes@perdue.com
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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)