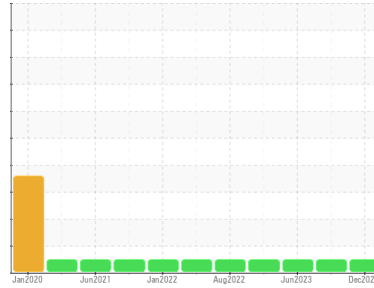


OIL ANALYSIS REPORT

Area
FLEET
 Machine Id
VOLVO 1926731
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (---)

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	PCA0108199	PCA0102861	PCA0095988	
Sample Date	Client Info	13 Dec 2023	14 Sep 2023	22 Jun 2023	
Machine Age	mls	Client Info	370578	348907	325791
Oil Age	mls	Client Info	44787	23116	47427
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	21	14	29
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	0	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >2	<1	<1	<1
Aluminum	ppm ASTM D5185m >25	3	0	3
Lead	ppm ASTM D5185m >40	<1	0	<1
Copper	ppm ASTM D5185m >330	4	5	6
Tin	ppm ASTM D5185m >15	1	<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	<1	2	3
Barium	ppm ASTM D5185m 0	0	0	<1
Molybdenum	ppm ASTM D5185m 50	59	60	66
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	924	991	1037
Calcium	ppm ASTM D5185m 1050	1028	1094	1207
Phosphorus	ppm ASTM D5185m 995	1018	1036	1109
Zinc	ppm ASTM D5185m 1180	1238	1286	1358
Sulfur	ppm ASTM D5185m 2600	2642	3482	3460

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	4	5
Sodium	ppm ASTM D5185m	12	9	22
Potassium	ppm ASTM D5185m >20	4	3	2

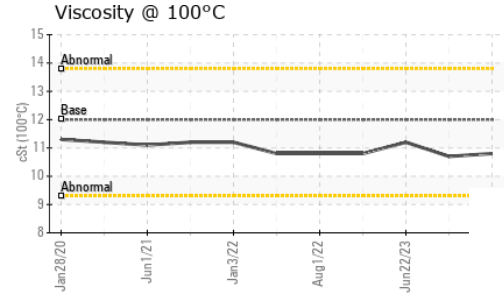
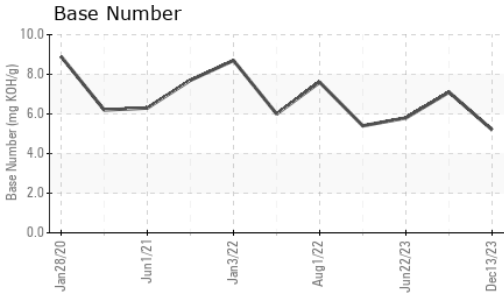
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.4	0.3	0.4
Nitration	Abs/cm *ASTM D7624 >20	10.0	9.7	11.2
Sulfation	Abs/.1mm *ASTM D7415 >30	22.6	20.1	23.0

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	19.9	17.0	20.4
Base Number (BN)	mg KOH/g ASTM D2896	5.2	7.1	5.8

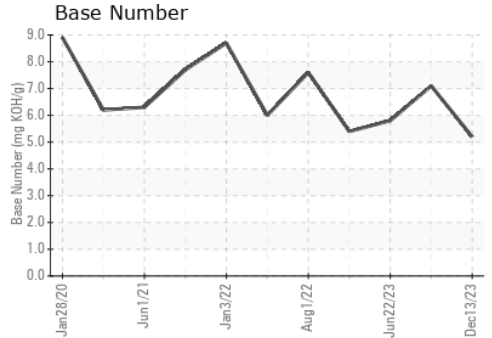
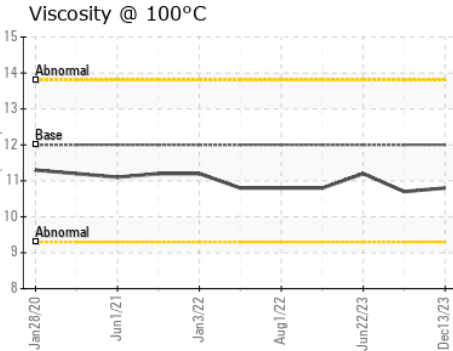
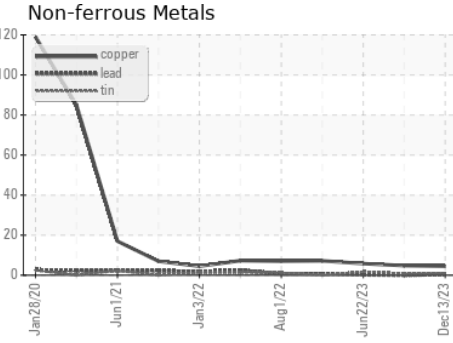
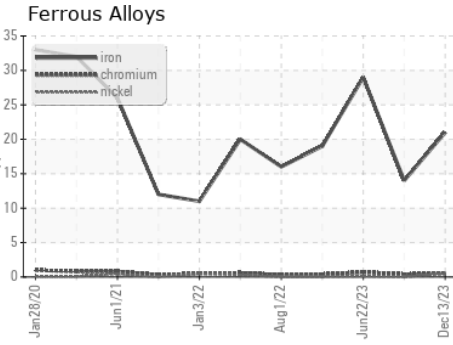
OIL ANALYSIS REPORT



PARAMETER	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

PARAMETER	method	limit/base	current	history1	history2
FLUID PROPERTIES					
Visc @ 100°C	cSt	ASTM D445	12.00	10.8	10.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108199 **Received** : 19 Dec 2023
Lab Number : 06039163 **Diagnosed** : 20 Dec 2023
Unique Number : 10794392 **Diagnostician** : Wes Davis
Test Package : FLEET

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 peggy.kimes@perdue.com
 T: (757)787-5304
 F: (757)787-5208

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)