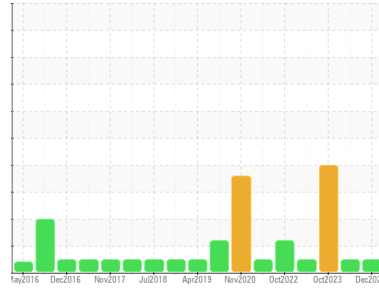




Machine Id
VOLVO TRACTOR MANUAL 26360 (S/N EN173859)

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (44 QTS)



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	PCA0108047	PCA0108043	PCA0108031
Sample Date	Client Info	06 Dec 2023	13 Nov 2023	23 Oct 2023
Machine Age	mls	Client Info	0	490172
Oil Age	mls	Client Info	0	12476
Oil Changed	Client Info	Not Changed	Not Changed	Changed
Sample Status		NORMAL	NORMAL	ABNORMAL

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	14	13	63
Chromium	ppm ASTM D5185m >20	<1	<1	4
Nickel	ppm ASTM D5185m >2	2	2	▲ 12
Titanium	ppm ASTM D5185m	0	<1	<1
Silver	ppm ASTM D5185m >2	0	<1	0
Aluminum	ppm ASTM D5185m >25	7	6	▲ 40
Lead	ppm ASTM D5185m >40	1	<1	6
Copper	ppm ASTM D5185m >330	2	2	9
Tin	ppm ASTM D5185m >15	<1	<1	2
Vanadium	ppm ASTM D5185m	<1	<1	<1
Cadmium	ppm ASTM D5185m	0	<1	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	2	2	0
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	61	60	63
Manganese	ppm ASTM D5185m 0	<1	<1	1
Magnesium	ppm ASTM D5185m 950	1046	922	973
Calcium	ppm ASTM D5185m 1050	1133	1051	1110
Phosphorus	ppm ASTM D5185m 995	1110	999	1016
Zinc	ppm ASTM D5185m 1180	1327	1189	1284
Sulfur	ppm ASTM D5185m 2600	3196	3050	2739

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	6	17
Sodium	ppm ASTM D5185m	11	8	50
Potassium	ppm ASTM D5185m >20	15	16	▲ 98

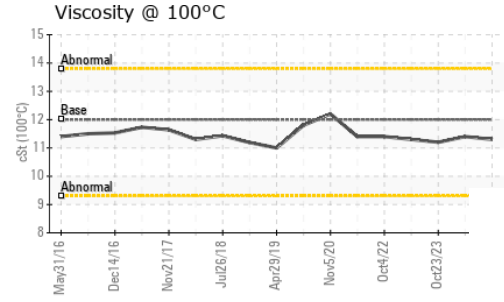
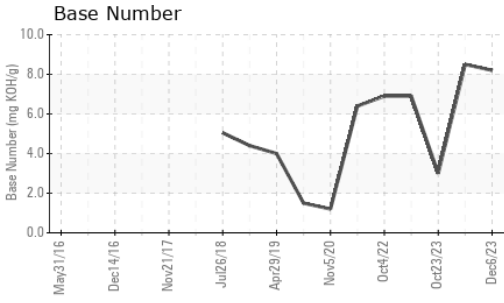
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.2	0.1	0.6
Nitration	Abs/cm *ASTM D7624 >20	7.3	6.8	14.1
Sulfation	Abs/.1mm *ASTM D7415 >30	19.0	19.2	27.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.6	15.5	26.5
Base Number (BN)	mg KOH/g ASTM D2896	8.2	8.5	▲ 3.0

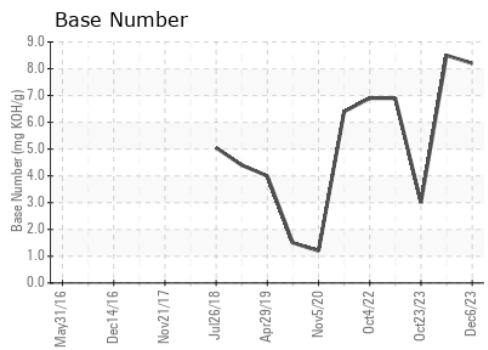
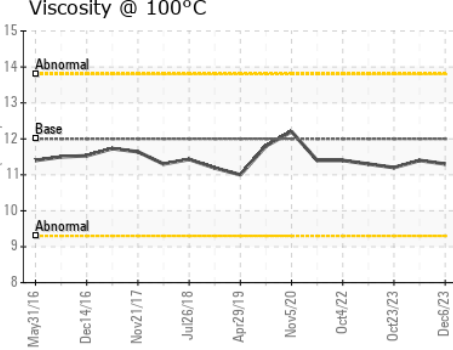
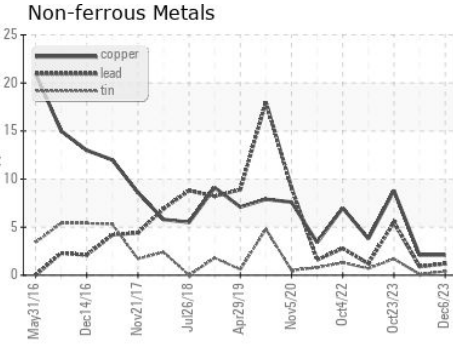
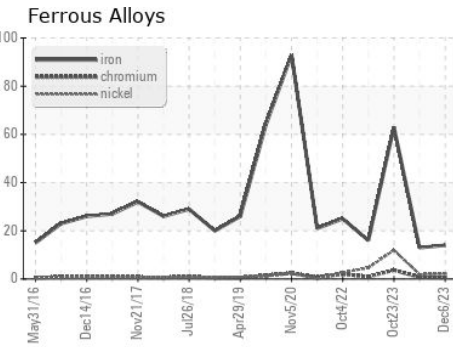
OIL ANALYSIS REPORT



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	11.3	11.4	11.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108047 **Received** : 07 Dec 2023
Lab Number : **06027555** **Diagnosed** : 08 Dec 2023
Unique Number : 10777346 **Diagnostician** : Wes Davis
Test Package : FLEET

PERDUE FARMS - Lewiston
 210 GRIFFINS QUARTER RD
 LEWISTON, NC
 US 27849
 Contact: NELSON WALLACE
 nelson.wallace2@perdue.com

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)

T:
F: