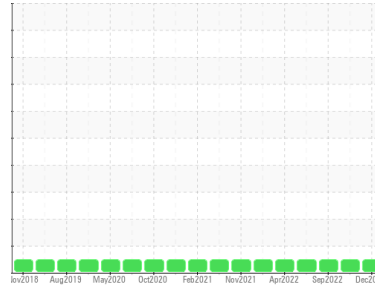


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
VOLVO VNR 26621 (S/N 4V4WB9EH1JN896034)

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (38 QTS)

DIAGNOSIS

Recommendation

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

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			PCA0106366	PCA0081640	PCA0079826
Sample Date	Client Info			15 Dec 2023	27 Nov 2022	05 Sep 2022
Machine Age	mls Client Info			511681	40000	20000
Oil Age	mls Client Info			20000	40000	20000
Oil Changed	Client Info			Not Chngd	Changed	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	31	15	
Chromium	ppm ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm ASTM D5185m	>2	0	0	0	
Titanium	ppm ASTM D5185m		<1	7	7	
Silver	ppm ASTM D5185m	>2	<1	0	<1	
Aluminum	ppm ASTM D5185m	>25	3	4	3	
Lead	ppm ASTM D5185m	>40	<1	2	<1	
Copper	ppm ASTM D5185m	>330	3	6	3	
Tin	ppm ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm ASTM D5185m		0	0	<1	
Cadmium	ppm ASTM D5185m		0	0	0	

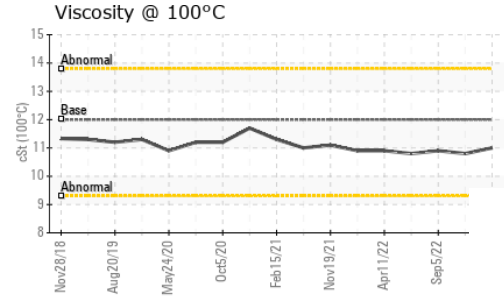
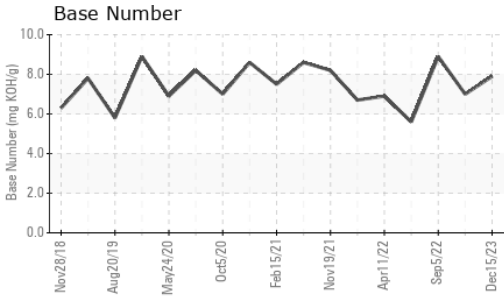
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	2	3	5	
Barium	ppm ASTM D5185m	0	0	0	0	
Molybdenum	ppm ASTM D5185m	50	56	53	49	
Manganese	ppm ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm ASTM D5185m	950	914	818	796	
Calcium	ppm ASTM D5185m	1050	1069	1196	1106	
Phosphorus	ppm ASTM D5185m	995	1050	960	930	
Zinc	ppm ASTM D5185m	1180	1258	1194	1145	
Sulfur	ppm ASTM D5185m	2600	2953	3136	3239	

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	4	6	3	
Sodium	ppm ASTM D5185m		5	14	8	
Potassium	ppm ASTM D5185m	>20	2	4	3	

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.3	0.6	0.4	
Nitration	Abs/cm *ASTM D7624	>20	7.8	10.0	8.5	
Sulfation	Abs/.1mm *ASTM D7415	>30	19.0	23.0	20.5	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	15.3	18.7	16.1	
Base Number (BN)	mg KOH/g ASTM D2896		7.9	7.0	8.9	

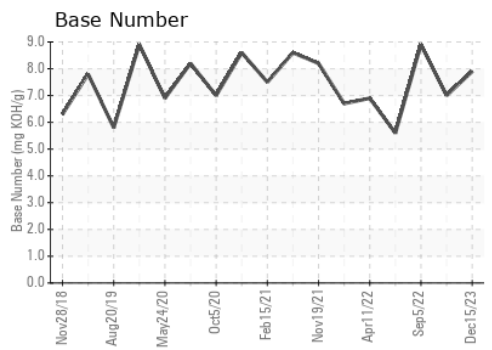
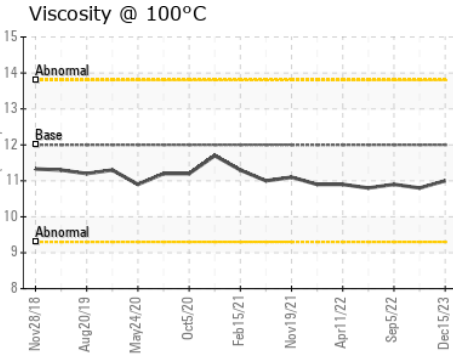
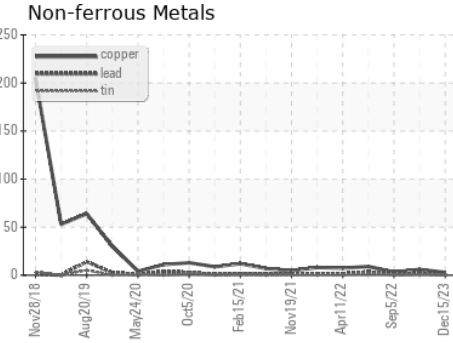
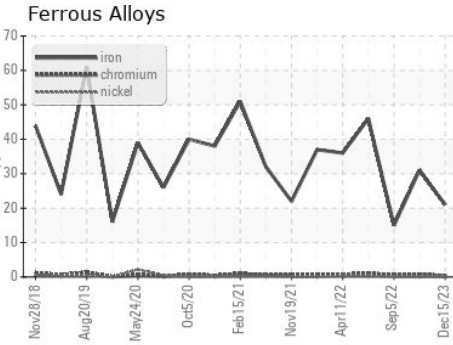
OIL ANALYSIS REPORT



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	11.0	10.8	10.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106366 **Recieved** : 10 Jan 2024
Lab Number : 06056399 **Diagnosed** : 11 Jan 2024
Unique Number : 10822348 **Diagnostician** : Angela Borella
Test Package : FLEET

PERDUE FARMS - SALISBURY
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 US 21802
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 richard.oneal@perdue.com
 T: (410)543-3628
 F: (410)341-2164

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)