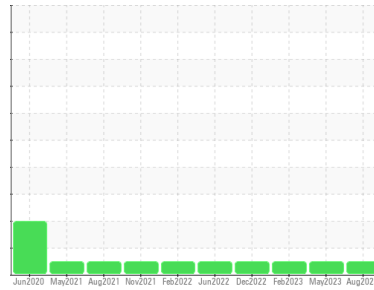




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
16825

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- 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

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. 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	IL0027074	IL0027061	IL0027116	
Sample Date	Client Info	30 Aug 2023	15 May 2023	28 Feb 2023	
Machine Age	mls	Client Info	300234	349098	260958
Oil Age	mls	Client Info	20239	11553	14880
Oil Changed	Client Info	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	20	12	12
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >4	0	0	<1
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >3	0	0	<1
Aluminum	ppm ASTM D5185m >20	38	7	5
Lead	ppm ASTM D5185m >40	<1	<1	0
Copper	ppm ASTM D5185m >330	1	1	1
Tin	ppm ASTM D5185m >15	<1	<1	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	22	29	41
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	41	37	43
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m 0	538	641	635
Calcium	ppm ASTM D5185m	1564	1506	1582
Phosphorus	ppm ASTM D5185m	762	779	844
Zinc	ppm ASTM D5185m	944	964	1006
Sulfur	ppm ASTM D5185m	2918	3021	3221

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	5	2
Sodium	ppm ASTM D5185m	<1	2	2
Potassium	ppm ASTM D5185m >20	56	5	4

INFRA-RED

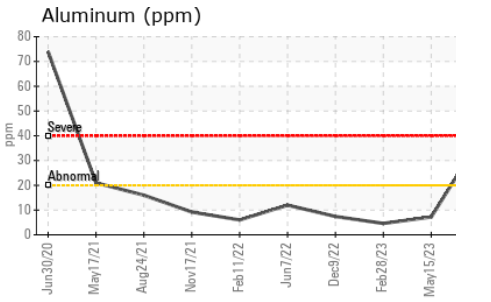
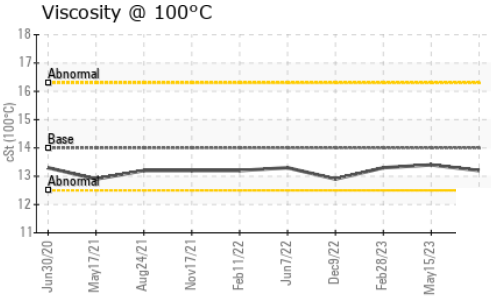
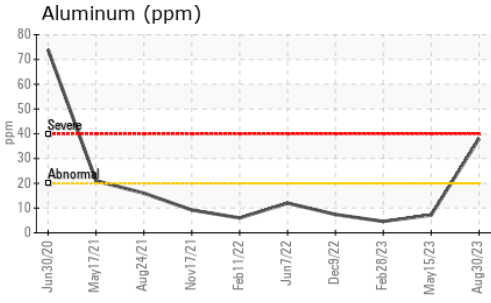
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	0.4	0.3
Nitration	Abs/cm *ASTM D7624 >20	9.4	9.0	8.1
Sulfation	Abs/.1mm *ASTM D7415 >30	21.9	21.4	19.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	21.2	20.6	19.1
Base Number (BN)	mg KOH/g ASTM D2896 9.4	9.9	9.2	9.0



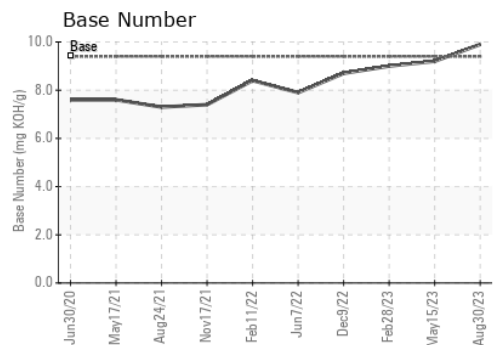
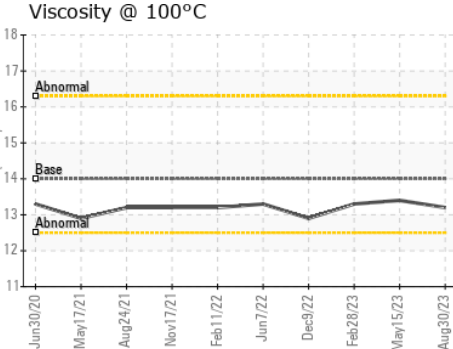
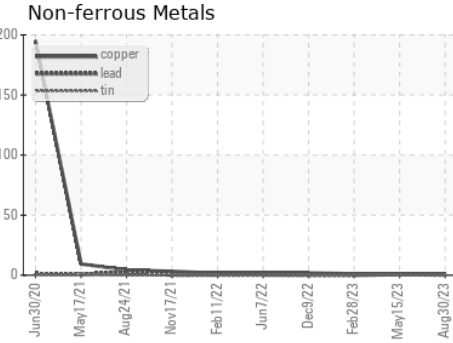
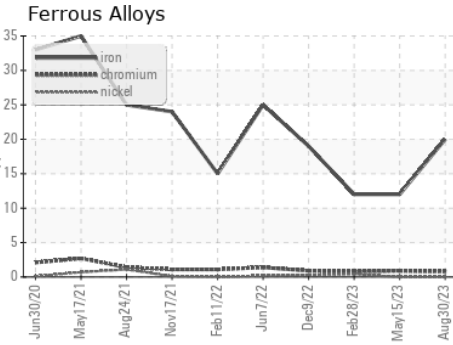
OIL ANALYSIS REPORT



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	14	13.2	13.4	13.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0027074
Lab Number : 05965048
Unique Number : 10671599
Test Package : FLEET

RUSH TRUCK LEASING - EFFINGHAM Idealease
 1701 WEST FAYETTE AVENUE
 EFFINGHAM, IL
 US 62401
 Contact: JACKIE OHNESORGE
 ohnesorgej@rushenterprises.com
 T: (217)342-9761
 F: (217)342-9642

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)