



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 8464862
 Component
Diesel Engine
 Fluid
MOBIL DELVAC ELITE 15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0021931	RPL0017956	RPL0016792
Sample Date		Client Info		20 Jun 2024	08 Mar 2024	25 Nov 2023
Machine Age	mls	Client Info		127475	111035	83944
Oil Age	mls	Client Info		16440	27091	83944
Filter Age	mls	Client Info		16440	27091	83944
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	17	38	94
Chromium	ppm	ASTM D5185m	>4	<1	2	4
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	1	7
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	11	24	44
Lead	ppm	ASTM D5185m	>45	<1	2	4
Copper	ppm	ASTM D5185m	>85	1	2	5
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

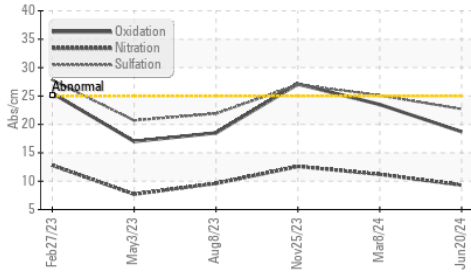
Silicon	ppm	ASTM D5185m	>30	5	7	12
Potassium	ppm	ASTM D5185m	>20	24	53	111
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.8	1
Nitration	Abs/cm	*ASTM D7624	>20	9.3	11.2	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	25.1	27.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

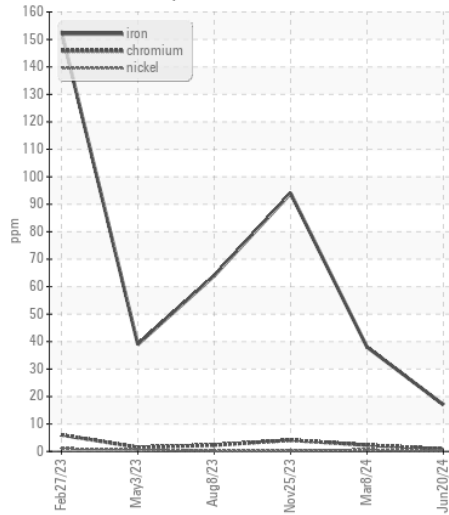
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	1	2
Boron	ppm	ASTM D5185m		3	7	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		62	58	54
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m		936	940	933
Calcium	ppm	ASTM D5185m		1127	1126	1150
Phosphorus	ppm	ASTM D5185m		1197	1056	910
Zinc	ppm	ASTM D5185m		1292	1288	1211
Sulfur	ppm	ASTM D5185m		3222	3298	2724
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	23.5	27.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	8.2	6.4	4.6
Visc @ 100°C	cSt	ASTM D445	15.2	13.0	13.5	14.0

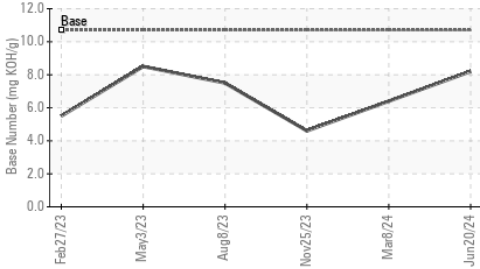
FT-IR (Direct Trend)



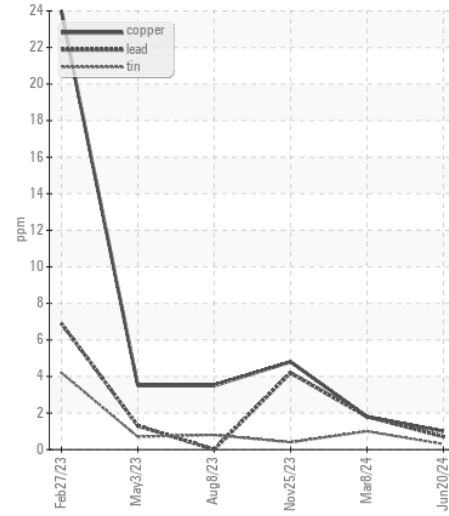
Ferrous Alloys



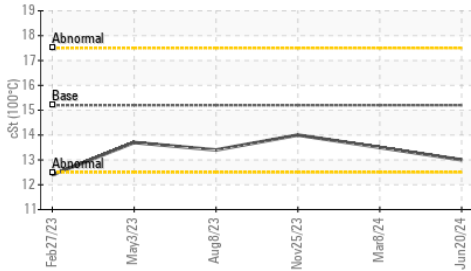
Base Number



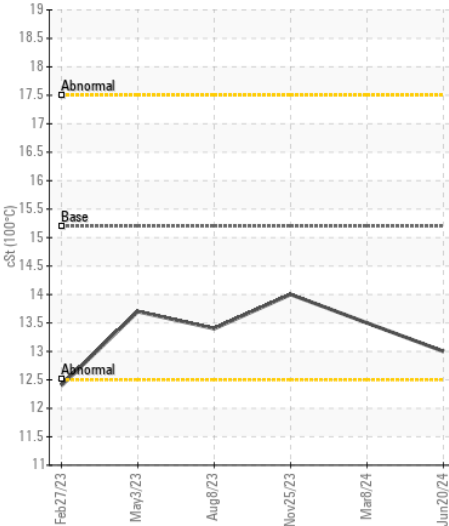
Non-ferrous Metals



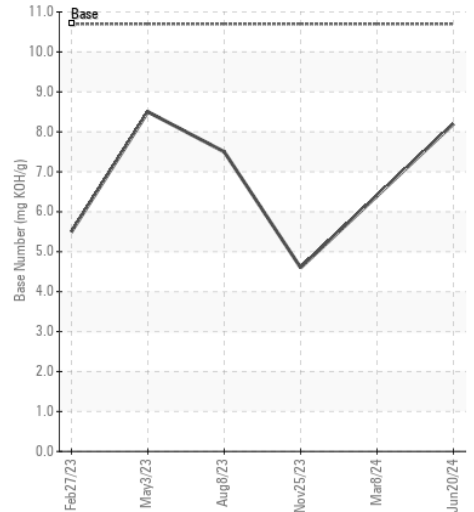
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RPL0021931

Lab Number : 06230033

Unique Number : 11113526

Test Package : FLEET

Received : 08 Jul 2024

Tested : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Don Baldrige

RTL PACLEASE - 7006 - Pico Rivera

7837 Telegraph Rd

Pico Rivera, CA

US 90660

Contact: GERARDO CARROLA

carrolag@rushenterprises.com

T:

F:

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)