



PacLease

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
139-445
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016763	RPL0007753	RPL0007278
Sample Date		Client Info		12 Apr 2024	07 Jul 2023	14 Mar 2023
Machine Age	mls	Client Info		383583	287106	251348
Oil Age	mls	Client Info		96477	287106	34633
Filter Age	mls	Client Info		0	287106	34633
Oil Changed		Client Info		N/A	Changed	Not Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	30	85	35
Chromium	ppm	ASTM D5185m	>20	<1	3	2
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	▲ 21	10
Lead	ppm	ASTM D5185m	>40	1	5	<1
Copper	ppm	ASTM D5185m	>330	0	6	1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
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.

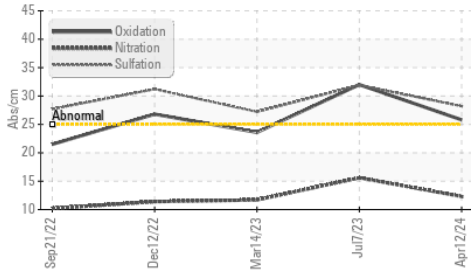
Silicon	ppm	ASTM D5185m	>25	7	10	9
Potassium	ppm	ASTM D5185m	>20	8	32	14
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	1.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	12.3	15.6	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2	31.9	27.2
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

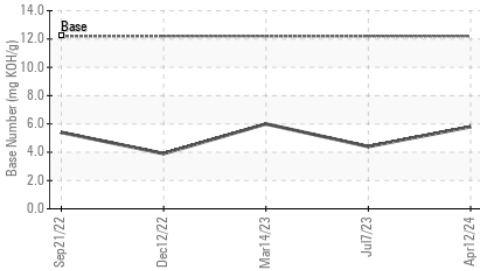
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	3	2
Boron	ppm	ASTM D5185m		76	22	79
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		125	129	121
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		732	655	634
Calcium	ppm	ASTM D5185m		1632	1584	1518
Phosphorus	ppm	ASTM D5185m	1360	716	757	677
Zinc	ppm	ASTM D5185m	1480	864	957	738
Sulfur	ppm	ASTM D5185m		2787	2621	2319
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.8	32.0	23.6
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	5.8	4.4	6.0
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	13.9	13.3

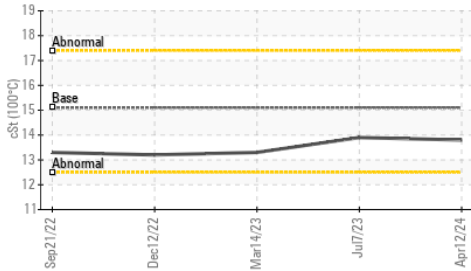
FT-IR (Direct Trend)



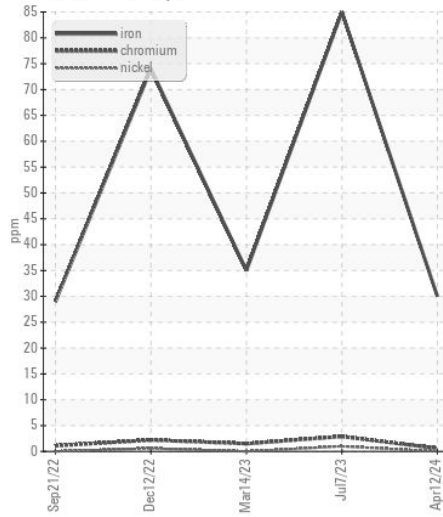
Base Number



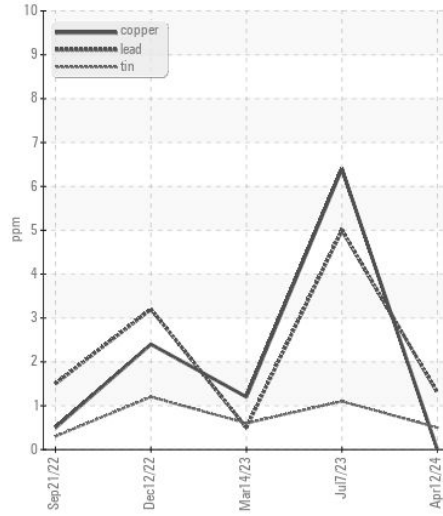
Viscosity @ 100°C



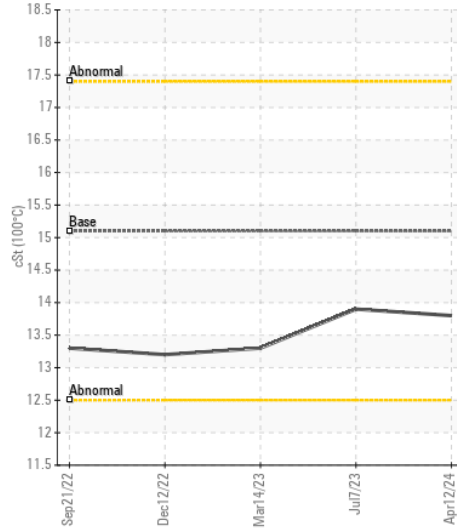
Ferrous Alloys



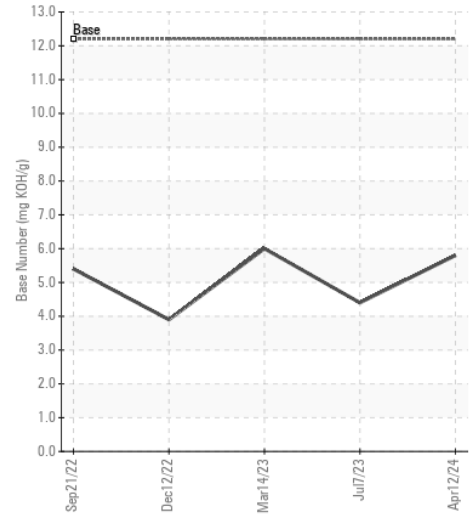
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016763
Lab Number : 06151670
Unique Number : 10981748
Test Package : FLEET
Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Jonathan Hester

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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)