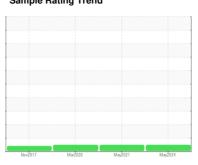


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

TAKEUCHI 610-55

Diesel Engine

PETRO CANADA DURON SHP 15W40 (3 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

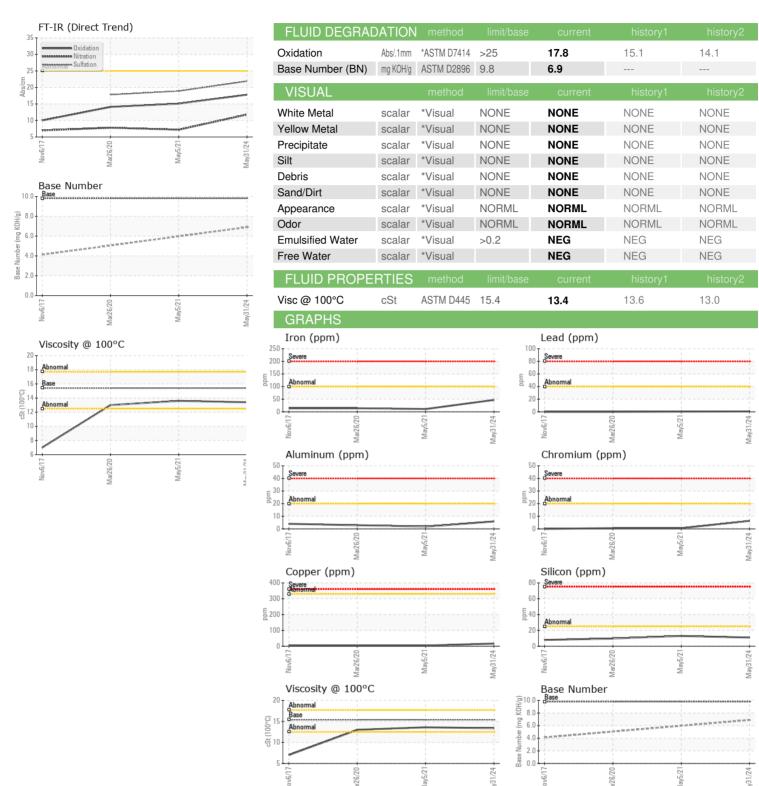
Fluid Condition

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

AL)		Nov201	7 Mar2020	May2021 Ma	ay2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121243	PCA0035024	PCA0018113
Sample Date		Client Info		31 May 2024	05 May 2021	26 Mar 2020
Machine Age	hrs	Client Info		2451	1693	1586
Oil Age	hrs	Client Info		500	100	350
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	47	11	14
Chromium	ppm	ASTM D5185m	>20	6	<1	<1
Nickel	ppm	ASTM D5185m	>4	1	<1	0
Titanium	ppm	ASTM D5185m		3	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	6	2	3
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	17	4	4
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	5	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	58	56
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	989	920	1003
Calcium	ppm	ASTM D5185m	1070	1182	1008	1052
Phosphorus	ppm	ASTM D5185m	1150	990	1003	1010
Zinc	ppm	ASTM D5185m	1270	1354	1198	1117
Sulfur	ppm	ASTM D5185m	2060	3068	2629	2512
Lithium	ppm	ASTM D5185m				
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	13	10
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	6	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.8	7.2	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	18.9	17.8



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06229923 Unique Number : 11113416

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0121243

Received

Tested : 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

: 08 Jul 2024

US 46385 Contact: MARK STEFFEL mark.steffel@gemarshall.com T:

GE MARSHALL EXCAVATION

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact/Location: MARK STEFFEL - GEMVAL

F:

1351 JOLIET RD

VALPARAISO, IN