

OIL ANALYSIS REPORT

Area 2 Machine Id

HOPPER 3 GRP 1 (2M41) (S/N R122093) 02-0030-000-010

2 Gearbox

SHELL OMALA S4 GXV 220 (6 LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

PQ PQ levels are abnormal. Iron ppm levels are noted. Moderate concentration of visible metal present. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

There is no indication of any contamination in the oil.

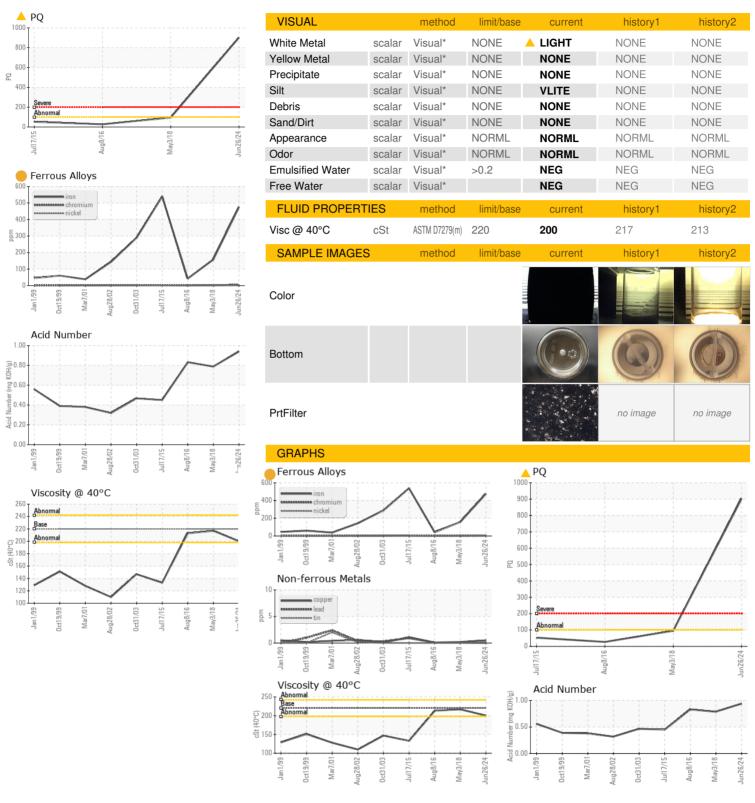
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0945377	WC117172	WC965850
Sample Date		Client Info		26 Jun 2024	03 May 2018	08 Aug 2016
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		902	95	27
Iron	ppm	ASTM D5185(m)	>200	475	158	42
Chromium	ppm	ASTM D5185(m)	>15	4	2	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	0
Lead	ppm	ASTM D5185(m)	>100	0	<1	<1
Copper	ppm	ASTM D5185(m)	>200	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		9	<1	5
Barium	ppm	ASTM D5185(m)		5	23	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		5	2	<1
Magnesium	ppm	ASTM D5185(m)		<1	1	0
Calcium	ppm	ASTM D5185(m)		5	13	3
Phosphorus	ppm	ASTM D5185(m)		320	473	419
Zinc	ppm	ASTM D5185(m)		3	2	3
Sulfur	ppm	ASTM D5185(m)		5201	2019	2633
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	5	20	14
Sodium	ppm	ASTM D5185(m)		<1	3	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	1	0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.94	0.788	0.831



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number Unique Number : 5802537

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0945377

: 02644998

Received : 02 Jul 2024 Tested

: 05 Jul 2024 Diagnosed

: 05 Jul 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: BottomAnalysis, FILTERPATCH, TAN Man)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Roseburg Pembroke MDF Inc.

777 Fibreboard Drive Pembroke, ON **CA K8A 6W5** Contact: Dan Havis danielh@rfpco.com

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