

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

MELT SHOP - HYDRAULIC Machine Id MELT SHOP LSG LADLE SLIDE GATE (S/N 15-4000-0770)

Component

Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (66 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

2020 Feb2021 Jund021 New2021 Meg0222 Sep2022 Feb2023 Jul0023						
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038068	RP0035329	RP0035494
Sample Date		Client Info		06 Dec 2023	07 Nov 2023	27 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		1	1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	5	<1	0	3
Calcium	ppm	ASTM D5185m	50	0	0	2
Phosphorus	ppm	ASTM D5185m	175	3	0	4
Zinc	ppm	ASTM D5185m	62	0	0	9
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	1	2	<1
Water	%	ASTM D6304		38.3	38.9	40.3
ppm Water	ppm	ASTM D6304	>55000	383000	389000	403000
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	818	2262	3201
Particles >6μm		ASTM D7647		445	1232	<u>▲</u> 1744
Particles >14μm		ASTM D7647	>160	76	<u>^</u> 210	<u>^</u> 297
Particles >21µm		ASTM D7647		26	<u>^</u> 71	<u> 100</u>
Particles >38µm		ASTM D7647	>10	4	<u> 11</u>	<u> </u>
Particles >71μm		ASTM D7647	>3	0	1	2

ISO 4406 (c) >19/17/14

17/16/13

Oil Cleanliness

18/17/15

19/18/15



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