

# **PROBLEM SUMMARY**

Sample Rating Trend

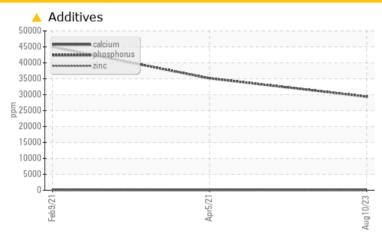
ADDITIVES

Machine Id **059**Component

Hydraulic System

ESSO HYJET IV-A PLUS (--- GAL)

### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				ATTENTION	ABNORMAL	NORMAL			
Phosphorus	ppm	ASTM D5185(m)	37	<b>29387</b>	▲ 35127	44986			
Sulfur	ppm	ASTM D5185(m)	220	<b>594</b>	<b>△</b> 798	336			

Customer Id: KELMOU Sample No.: WC0838479 Lab Number: 02575918 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.

### HISTORICAL DIAGNOSIS

## 05 Apr 2021 Diag: Bill Quesnel



We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Diagnostician's Note: This fluid appears to be Skydrol. Please verify sampling source.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is above the recommended limit. Viscosity of sample indicates oil is within ISO 7 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable.



### 09 Feb 2021 Diag: Kevin Marson

#### NORMAL



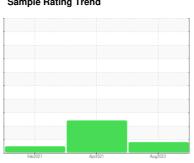
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 059 Component **Hydraulic System** 

**ESSO HYJET IV-A PLUS (--- GAL)** 

### **DIAGNOSIS**

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### ▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

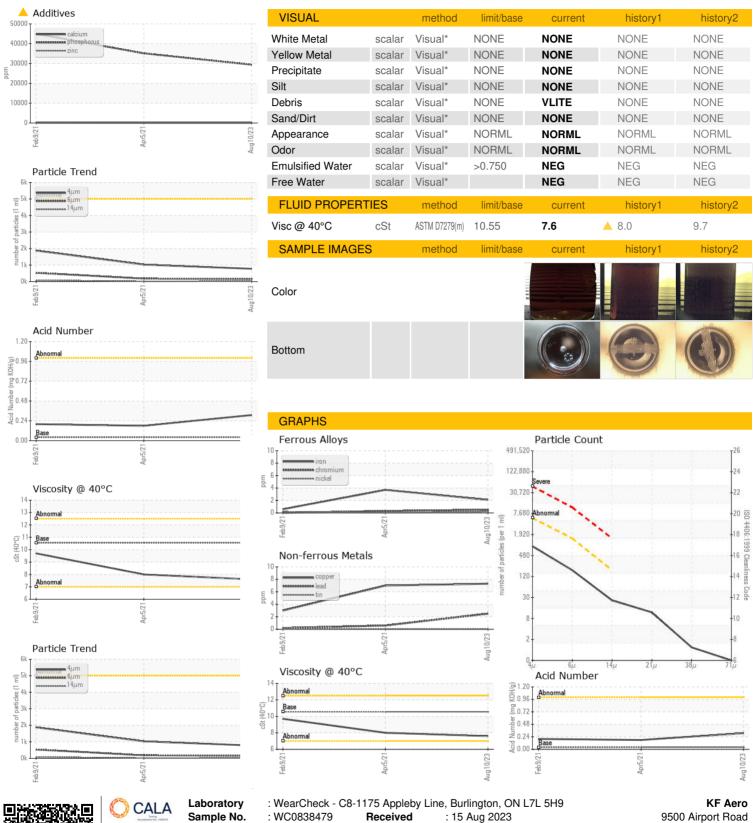
		Fel	2021	Apr2021 Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0838479	WC0532102	WC0532111
Sample Date		Client Info		10 Aug 2023	05 Apr 2021	09 Feb 2021
Machine Age	hrs	Client Info		37270	0	0
Oil Age	hrs	Client Info		0	0	1
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2	4	<1
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	2	<1	<1
Copper	ppm	ASTM D5185(m)	>20	7	7	3
Tin	ppm	ASTM D5185(m)	>20	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		5	7	3
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		3	4	3
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		6	8	3
Calcium	ppm	ASTM D5185(m)	110	77	83	124
Phosphorus	ppm	ASTM D5185(m)	37	<u>29387</u>	△ 35127	44986
Zinc	ppm	ASTM D5185(m)		17	7	3
Sulfur	ppm	ASTM D5185(m)	220	<b>594</b>	<b>△</b> 798	336
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	2	2	6
Sodium	ppm	ASTM D5185(m)		6	5	5
Potassium	ppm	ASTM D5185(m)	>20	30	33	40
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	775	1024	1875
Particles >6µm		ASTM D7647	>1300	160	179	529
Particles >14μm		ASTM D7647	>160	22	13	81
Particles >21µm		ASTM D7647	>40	10	3	27
Particles >38μm		ASTM D7647	>10	1	0	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/12	17/15/11	18/16/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A : I N	1/011/	40714 0074	0.04			

**△** 0.18

0.20



## OIL ANALYSIS REPORT





ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number **Unique Number** 

: WC0838479 : 02575918

Received Diagnosed : 5628978 Diagnostician

: 16 Aug 2023

: Kevin Marson

Test Package : IND 2 (Additional Tests: 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. Validity of results and interpretation are based on the sample and information as supplied.

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